

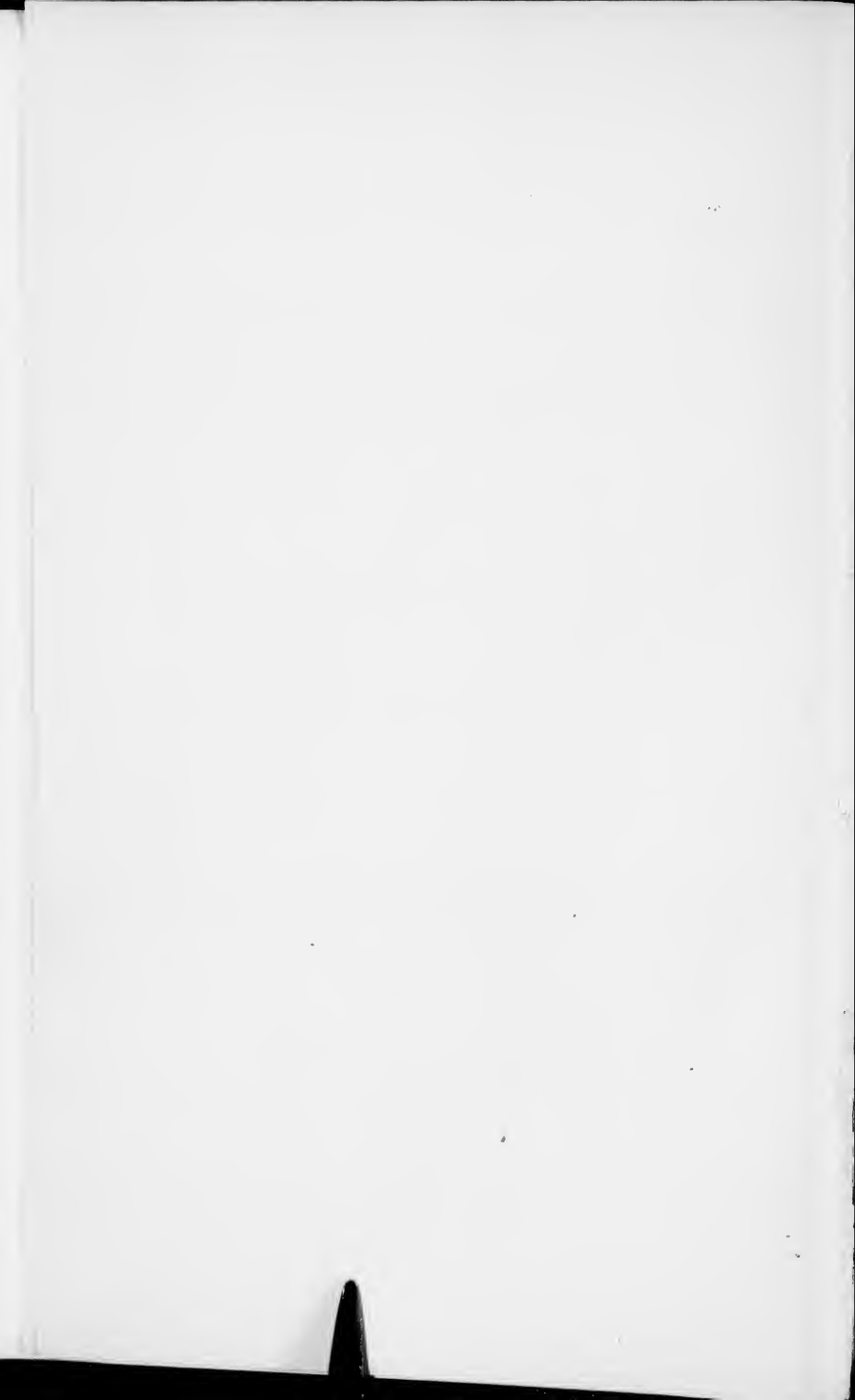
**Report of the
Commissioners
of the
District of
Columbia**

1885-1886

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ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

DISTRICT OF COLUMBIA

FOR

THE YEAR ENDED JUNE 30, 1886.

District of Columbia. Commissioners
T: Report

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1886.

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WASHINGTON, D. C.

ANNUAL REPORT

OF THE

COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

OFFICE OF THE COMMISSIONERS OF THE
DISTRICT OF COLUMBIA,
December 4, 1886.

The PRESIDENT:

Pursuant to the requirements of the act of Congress providing a permanent form of government for the District of Columbia, approved June 11, 1878, the Commissioners of said District hereby report through you to Congress their official doings in detail for the fiscal year ended June 30, 1886.

The receipts and expenditures during that period are reported by the auditor as follows:

RECEIPTS.

| | |
|--|--------------|
| Balance on hand July 1, 1885 | \$505,963 20 |
| General taxes | 1,657,247 52 |
| Licenses | 156,143 27 |
| Markets | 17,685 48 |
| Rent of District property | 5,118 57 |
| Fines | 40,085 68 |
| Fees for tax certificates | 2,802 00 |
| Permit fees, engineer's office | 3,360 00 |
| Building permits | 8,571 00 |
| Dog tax | 14,124 09 |
| Pound fees | 419 75 |
| Material furnished | 68 53 |
| Sale of old material | 380 26 |
| Sale of old horses | 104 40 |
| Labor and sale of products, Reform School | 1,055 63 |
| Sale of products, Washington Asylum | 25 58 |
| Use of steam fire-engine | 15 00 |
| Half fees received from inspector gas and meters | 233 75 |
| Forfeiture of recognizance | 317 90 |
| Forfeited bar deposits (license fund) | 383 34 |
| Advertising | 3,510 29 |
| Auctioneers' returns | 269 02 |
| Surplus from sale of contractors' guaranty bonds | 11,279 72 |
| Water taxes and rent | 169,613 29 |
| Washington redemption fund | 479 79 |
| Special tax fund | 12,448 05 |
| Redemption of assessment certificates | 216 54 |
| Redemption of tax lien certificates | 5,614 96 |
| Guaranty fund, act June 11, 1878, received in 1885 and 1886 | 89,408 97 |
| Policemen's relief fund, act February 25, 1885 | 7,412 77 |
| Firemen's relief fund, act February 25, 1885 | 2,305 51 |
| Repayments to appropriations | 3,191 44 |
| Received from United States, appropriation February 25, 1885 | 1,716,643 46 |
| Received from United States on account of completion sewerage system | 220,000 00 |
| Total receipts | 4,656,498 76 |

EXPENDITURES.

| | |
|--|--------------|
| Improvements and repairs, D. C | \$420,796 10 |
| Bridges, D. C | 7,639 93 |
| Washington Aqueduct, D. C | 20,000 00 |
| Washington Asylum, D. C | 47,738 77 |
| Buildings Washington Asylum, D. C | 19,552 92 |
| Georgetown almshouse, D. C | 1,788 50 |
| Government Hospital for the Insane, D. C | 52,705 50 |
| Reform School, D. C | 36,616 00 |
| Transportation of paupers and prisoners, D. C | 3,123 51 |
| Relief of the poor, D. C | 14,198 05 |
| Columbia Hospital for Women and Children, D. C | 15,000 00 |
| Women's Christian Association, D. C | 5,000 00 |
| National Association for Destitute Colored Women and Children, D. C | 6,500 00 |
| Building for National Association for Destitute Colored Women and Children, D. C | 18,009 03 |
| Children's Hospital, D. C | 5,077 56 |
| Saint Ann's Infant Asylum, D. C | 5,000 00 |
| Maintenance of church orphanage, D. C | 1,500 00 |
| Industrial Home School, D. C | 12,020 00 |
| Building for Homeopathic Hospital, D. C | 15,000 00 |
| Salaries and contingent expenses offices, D. C | 151,975 50 |
| Expenses of assessing real property, D. C | 10,185 60 |
| Streets, D. C | 247,543 31 |
| Metropolitan Police, D. C | 326,571 97 |
| Buildings Metropolitan Police, D. C | 15,000 00 |
| Maintenance public order, D. C | 65 00 |
| Fire department, D. C | 106,762 97 |
| Telegraph and telephone service, D. C | 14,564 81 |
| Courts, D. C | 14,398 69 |
| Public schools, D. C | 484,829 57 |
| Buildings and grounds public schools, D. C | 80,485 15 |
| Miscellaneous expenses, D. C | 8,209 94 |
| Health department, D. C | 43,646 32 |
| Interest and sinking fund, D. C | 1,213,947 97 |
| Contingent expenses, D. C | 655 00 |
| Completion of sewerage system, D. C | 195,040 97 |
| Redemption of certificates of indebtedness, D. C | 366 96 |
| Water department, D. C | 187,768 22 |
| Guarantee fund D. C., act June 11, 1878 | 22,364 77 |
| Refunding erroneously paid taxes | 2,553 50 |
| Washington special tax fund | 11,849 43 |
| Redemption of tax-lien certificates | 5,636 99 |
| Redemption of assessment certificates | 216 54 |
| Washington redemption fund | 97 28 |
| Policemen's relief fund, D. C | 2,534 48 |
| Firemen's relief fund, D. C | 241 94 |
| Total expenditures | 3,854,778 75 |
| Balance | 801,720 01 |
| Less expenditures from guarantee fund during fiscal year ended June 30, 1885, omitted from statement for that year | 55,669 66 |
| Net balance | 746,050 35 |
| This balance is composed as follows : | |
| Subject to general expenses | \$642,830 53 |
| Completion of sewerage system | 41,435 99 |
| Water fund | 33,546 70 |
| Special tax fund | 3,767 07 |
| Washington redemption fund | 1,220 51 |
| Redemption of tax-lien certificates | 2,819 63 |
| Redemption of assessment certificates | 272 53 |
| Guarantee fund, D. C. contractors, act June 11, 1878 | 11,374 54 |
| Policemen's relief fund | 4,878 29 |
| Firemen's relief fund | 2,063 57 |
| Redemption of Pennsylvania avenue paving certificates | 919 29 |

| | |
|--|-------------|
| Filling grounds south of the Capitol | \$174 28 |
| Sales of public property | 449 2 |
| General expenses, act March 3, 1875 | 292 31 |
| Fire department | 49 |
| Surplus fund | 5 50 |
| | <hr/> |
| | 746, 050 35 |

The drawbacks received in payment of general taxes for which the District claims credit have not been entered as part of the District revenues, because the Commissioners have not yet been informed by the First Comptroller that credit therefor had been given, and they therefore are not included in the above statement; but the provision in the District appropriation act of July 9, 1886, seems to have so plainly indicated the purpose of Congress in the premises that the Commissioners anticipate no objection by the accounting officers of the Treasury to this credit.

The justice of this legislation and the intention of Congress in passing it seem very clear to the Commissioners. Under the system of taxation for street improvements made by the Board of Public Works, the private property adjoining and specially benefited by those improvements was charged, pursuant to law, with one-third of the cost thereof, and the District of Columbia and the United States were equitably chargeable with the remaining two-thirds in equal parts. These special assessments, as originally made, contained so many errors that Congress, in response to the general complaint of their inaccuracy, passed the acts of June 19, 1878 (U. S. Stat. L., vol. 20, p. 466), and June 27, 1879 (U. S. Stat. L., vol. 21, p. 36), which authorized the Commissioners to revise and correct them and issue drawback certificates for the amount of those taxes paid in excess of the amount found to be due upon such revision. In order to give these drawbacks a marketable value they were by the last-mentioned law made receivable for all general taxes due prior to July 1, 1877, and all special taxes. Congress, also, by a clause in the District appropriation act of March 3, 1881 (U. S. Stat. L., vol. 21, p. 466), and subsequent District appropriation acts, provided that one-half of the amount of these drawbacks received in payment of general taxes shall be regarded as part of the revenues of the District.

Every dollar of these drawbacks used in payment of general taxes prevented the payment of that amount in cash, and as those drawbacks so used were afterwards valueless to the District, the revenue from taxes was thereby reduced to that extent, and the District was thus compelled to bear the entire loss of the amount of errors these drawbacks represented, while it was justly chargeable with only one-half of that amount at the most. It was in recognition of this injustice, and of the obligation of the United States to assume at least an equal amount of that loss with the District, that Congress passed the provisions to relieve the District of one-half of it by allowing the District a credit for that much of the amount of taxes paid with drawbacks, the same as if the taxes so settled had been paid with money. (See U. S. Stat. L., vol. 21, p. 466, and subsequent District appropriation laws, particularly section 2 of the District appropriation act, approved July 9, 1886.)

DEBT.

The Treasurer of the United States shows, in his exhibit of the bonded indebtedness of the District for the quarter ended June 30, 1886, which is hereto appended, that said debt on that date amounted to \$21,279,600. All of this debt was incurred before the establishment of the present

form of government for the District, July 1, 1878, under which \$1,664,000 of it has been retired.

The only unsettled debts of the District which were incurred during the existence of the present form of government, were contracted for the completion of the sewer system, under act of June 30, 1884, and for the increase of the water supply for the city of Washington, under act approved July 15, 1882.

The amount payable under the first-named act out of the revenues of the District derived from other sources than the General Government is \$250,000, but the balance in the Treasury to the credit of the Commissioners and applicable to this debt is sufficient to liquidate it, so that its settlement only awaits the formal action of the accounting officers of the Treasury.

The amount for which the Commissioners will have to make provision under the second-named act was, on 30th of June, 1886, \$742,501.29, bearing interest at 3 per cent. per annum. This is charged to a capital account on the books of the Treasury, and the principal and interest of it are payable from any surplus of water rents after providing for the expense of maintaining the water-works and for meeting the interest and sinking fund requirements of the water bonds. The Commissioners are required to regulate the water rates to meet the demands of this account, and thus far the receipts from this source have been sufficient for that purpose. The amount collected from the source mentioned and applied as required during the year 1886 was \$55,047.27.

SECRETARY.

The secretary furnishes copies of orders of a general nature made by the Commissioners during the year, and a detailed index of all appropriations made for the support of the District government from 1878 to 1887, inclusive.

The appropriations for the executive office were:

| | | |
|-----------------|-------------|-----------|
| Salaries..... | \$18,744 00 | |
| Contingent..... | 2,500 00 | |
| | | 21,244 00 |
| Expended: | | |
| Salaries..... | \$18,744 00 | |
| Contingent..... | 2,496 14 | |
| | | 21,240 14 |
| Unexpended..... | | 3 86 |

ASSESSMENTS.

The assessor of the District of Columbia compiles and has charge of the assessment records of the District, the issue of District licenses, and the custody of all official bonds of the District.

| | |
|---|-------------|
| The appropriation for his office was..... | \$13,600 00 |
| The expenditures were..... | 13,587 26 |
| Leaving unexpended balance of..... | 12 74 |

GENERAL ASSESSMENTS OF REAL PROPERTY.

General assessments of real property in the District are made every three years, under act of March 3, 1883 (U. S. Stat. L., vol. 22, p.

568), by twelve assessors, for as many separate assessment districts, who give bond in \$2,000 each and receive \$5 for each day they are necessarily employed. They are required to make their returns before the first Monday of June. For two months thereafter, with the assessor of the District of Columbia, they compose a board of equalization to hear complaints and increase or diminish the assessments so made, but they must not reduce the aggregate value of the real property below the aggregate of the returns of the assessors, and must finally complete the assessment and report it to the Commissioners before the first Monday of August. The assessed value is the determination of the assessors as to "the true value" of the property "in lawful money." From this assessment, when thus completed and reported, there is no appeal, and it cannot be changed until the next succeeding triennial assessment. The valuation of buildings and other improvements in existence at the time the general assessments are made is included in such assessments, and the value of those thereafter erected is added by the assessor of the District under section 12 of the act aforesaid, when they reach an assessable stage in their construction.

There does not seem to be any good reason for the requirement in the present law that assessors shall be residents of the assessment district for which they are appointed; on the contrary, it would seem to be a better public policy to require that assessors should not reside in the districts they assess.

ASSESSMENT OF PERSONAL PROPERTY.

Assessments of personal property in the District of Columbia are made under the "Act for the support of the government of the District of Columbia for the fiscal year ending June 30, 1878, and for other purposes," approved March 3, 1877 (U. S. Stat. L., vol. 19, p. 396), as modified by act amendatory of said act approved April 3, 1878 (U. S. Stat. L., vol. 20, p. 34), which changes dates when tax shall be payable, and provides for revision of personal assessments, and as further modified by an order of the Commissioners of December 21, 1878, which consolidated the three offices of assessors therefore existing into one office, the duties of which are discharged by the assessor.

GENERAL ASSESSMENT OF 1886.

The assessor reports that the valuation of property in the District, according to the assessment of 1886, was, on June 30, 1886, as follows:

| | |
|--|-----------------|
| Taxable | \$120, 236, 346 |
| Non-taxable : | |
| Property of the District of Columbia | \$2, 058, 772 |
| Private property exempted by law | 6, 354, 634 |
| Property of the United States | 105, 389, 684 |
| | <hr/> |
| | 113, 803, 090 |
| | <hr/> |
| Total | 234, 039, 436 |

This statement of non-taxable property does not include the streets and avenues in the city of Washington, the fee simple of which is in the United States; nor does it include any property of the United States other than real.

The taxable property is located as follows:

| | |
|--|--------------|
| City of Washington: | |
| Real property and improvements thereon | \$96,388,486 |
| Personal property | 11,865,705 |
| City of Georgetown: | |
| Real property and improvements thereon | 4,741,540 |
| Personal property | 35,530 |
| Suburban portion of District: | |
| Real property and improvements, agricultural | 3,729,731 |
| Real property and improvements, non-agricultural | 3,442,344 |
| Personal property | 33,010 |
| Total | 120,236,346 |

The non-taxable property is located as follows:

| | |
|--|---------------|
| City of Washington: | |
| Property of the District of Columbia | \$1,833,333 |
| Private property exempt | 5,238,068 |
| Property of the United States | 101,986,386 |
| | <hr/> |
| | \$109,062,787 |
| City of Georgetown: | |
| Property of the District of Columbia | 165,839 |
| Private property exempt | 328,488 |
| Property of the United States | 132,987 |
| | <hr/> |
| | 627,314 |
| Suburban portion of the District: | |
| Property of the District of Columbia | 54,600 |
| Private property exempt | 788,078 |
| Property of the United States | 3,270,311 |
| | <hr/> |
| | 4,112,989 |
| Total | <hr/> |
| | 113,803,090 |

BUILDINGS.

The assessor reports that there are 34,750 houses in the District, excepting Government buildings, located as follows:

| | |
|--------------------------|--------|
| City of Washington | 29,086 |
| City of Georgetown | 2,549 |
| Suburban | 3,115 |

LICENSES.

He also reports that 3,948 licenses were issued during the year, for which \$156,455.72 were received. This was an increase of 257 licenses and \$11,809.72 in revenue therefrom over the preceding year. Of these licenses 789 were for retail and 595 for wholesale liquor dealing. The office also prepared 5,604 certificates of the condition of tax accounts provided for by act of Congress of February 6, 1879, for which the District received \$2,802.

LIQUOR-LICENSE LAWS.

The law respecting the issuing of licenses remains unchanged and is subject to the same criticism that was meted to it in our report for the year ending June 30, 1885. It is imperatively necessary that something should be done to make this law more applicable to the condition of things in our community, or that such matters and others of similar character should be in some way placed in the hands of the Commissioners that they would have the power to make proper regulations concerning them.

SPECIAL ASSESSMENTS.

The special assessments with which the Commissioners have to do are for municipal improvements of highways under contracts of the late corporation of Washington; contracts of the Board of Public Works, the successor thereof, from its organization April 25, 1871, until its abolition, June 20, 1874; extensions of same by the Commissioners who succeeded that Board; assessment for cost of paving contiguous to street railroad tracks; assessments for benefits from opening alleys, and assessments for improvement of sidewalks and alleys under the permit system.

The assessments for work done under contracts with the former corporation of the city of Washington, and those under contracts with the Board of Public Works, and extensions thereof, are as follows. The others are comparatively insignificant in amount, and many are of questionable validity.

The amount of uncollected old corporation assessments can only be estimated, but will not exceed \$60,000. They are, with a few exceptions, security for an equal amount of "scrip" held by private parties. The District has no responsibility in connection with them, other than that of trustee to collect the assessment from the property against which they are levied, pay the proceeds to the holders of the "scrip," and cancel the "scrip" when so redeemed.

The uncollected special assessments for work done under contracts with the Board of Public Works, and extensions thereof, to which the District also stands in the relation of trustee only, amount to \$497,157.36; \$405,503.64 of this amount, bearing interest at 10 per centum since 1876 on an average, are held by the Treasurer of the United States as security for certain 8 per cent. certificates of indebtedness, called "greenbacks," and all collections of such assessments are transferred by the Commissioners to the said Treasurer, to be applied in the redemption of those certificates, of which there were outstanding on the 30th of June, 1886, \$248,500, with accrued interest thereon, estimated at \$180,000.

The remainder of the \$497,157.36 of special assessments, namely, \$91,653.72, with interest at 10 per cent. since 1872, on an average, represent the balance of those assessments, which are held by private parties. When payments of the debt they represent are made the Commissioners redeem them upon presentation. If the holders are known, notice to present them for payment is given thereto.

DRAWBACK CERTIFICATES.

The report of the officer in charge of special assessments also includes a statement in reference to the drawback certificates issued by the District, the history of which in general is set forth in the preceding part of this report.

The total amount of drawback certificates issued to June 30, 1886, is \$941,604.48; awaiting evidence of ownership, \$11,775.73; of those issued there have been received as payment for general taxes, \$379,823.26; in payment for special taxes, \$548,574.37; leaving outstanding, \$13,206.85.

Further details on this subject will be found in the accompanying report of the chief of the special assessment division, and favorable action is earnestly asked upon his recommendation that an efficient law be passed to secure the payment of these special taxes by insuring that deeds given by the Commissioners pursuant to sale of property delinquent for such taxes shall vest an indefeasible title in the purchaser.

COLLECTOR OF TAXES.

The collector of taxes is required to collect all revenues of the District and deposit the amounts collected daily with the Treasurer of the United States (U. S. Stat. L., vol. 21, p. 460) and enforce collections in the manner prescribed by law. He is also required to make out all tax bills.

The appropriations for his office for the year ended June 30, 1886, were \$17,300; the expenditures were \$17,288.30; unexpended, \$11.70.

He reports collections and deposits in the Treasury for the fiscal year ended June 30, 1886, as follows:

| | |
|--|------------------|
| Tax on real estate and improvements | \$1, 440, 327 87 |
| Tax on personalty | 160, 006 92 |
| Licenses and other miscellaneous items | 266, 846 75 |
| Penalties | 85, 199 15 |
| Water tax | 170, 011 95 |
| Total | 2, 123, 392 64 |
| Uncollected taxes, real and personal | 1, 129, 991 93 |

This apparent uncollected balance includes charges against church, school, asylum, and other property exempt from taxation, and property which has been bought in by the District at tax sales.

A large portion of this balance is taxes in arrears for many years, which, with the accrued penalties, interest, and other costs, amount in many cases to the value of the property, and frequently more. The owners are unable or unwilling to pay, and the inability of the District to give a reliable title under the present laws, as interpreted by the District courts, deters people from purchasing it at tax sale. The Commissioners should be authorized to receive this tax with such an abatement of the penalties, interests, and costs, as would bring it within the power or interest of the owners to pay it, or else Congress should pass such a law as would enable the Commissioners to give a valid deed to those who purchase at sales for those arrears.

Another portion of the balance is excessive and erroneous taxes on personal property and penalties on same, the assessment of which was based on the judgment of the assessor. This officer is required by law, in cases where parties subject to assessment fail to make a return of their assessable personal property, to estimate from the best information he can obtain what such return should have been, and to add 50 per centum thereto and collect the amount so determined. These estimated assessments form a part of the uncollected taxes, and, as their collection is almost hopeless, it would seem to be proper to disregard them in making up the official balance of uncollected taxes.

The Commissioners hope to be able to have a critical revision of the tax list, which will eliminate all errors correctible without legislation, and that such legislation will be had by Congress as will enable them to enforce payment of all genuine arrears.

RECORD OF TAXES IN ARREARS.

The lack of a well-arranged record of taxes in arrears is a cause of much inconvenience to the public by reason of the delay and errors consequent upon the extended and complicated search necessary, in the present state of these records, to ascertain the condition of unpaid tax accounts, and also a cause of loss to the District Government, which

cannot collect any arrears overlooked in those examinations and consequently omitted from the certificates given by the collector in the premises.

The Commissioners have given the subject earnest attention, and hope soon to have these records arranged under a convenient system.

AUDITOR.

The report of the auditor, herewith appended, exhibits in detail the financial transactions of the District, exclusive of those connected with the funded debt during the year and special assessment liens held by third parties and wholly or partly paid to the collector of taxes in cash.

The appropriations for the support of the auditor's office for the fiscal year ended June 30, 1886, were:

| | | |
|---------------------------|-------------|-------------|
| Salaries | \$16,200 00 | |
| Contingent expenses | 300 00 | |
| | | \$16,500 00 |

The expenditures were—

| | | |
|---------------------------|-----------|-----------|
| Salaries | 16,113 05 | |
| Contingent expenses | 299 72 | |
| | | 16,412 77 |

| | |
|--|-------|
| Leaving an unexpended balance of | 87 23 |
|--|-------|

ATTORNEY.

The attorney for the District of Columbia is required to have "charge of and conduct all law business of said District in all suits instituted by and against the Government thereof," and to "furnish opinions in writing" to the Commissioners whenever requested to do so, and also to perform such other professional duties as they may require of him. He has the professional aid of an assistant attorney and a special assistant attorney.

The appropriation for his office for the year amounted to \$8,712; the expenditures were \$8,548.61; unexpended balance \$163.39.

The attorney in his report, which is herewith appended, gives a synopsis of the leading cases to which the District is a party, which have engaged him during the year, and those still pending, and makes a statement of the other transactions of his office.

Thirty civil District cases have been disposed of in the District supreme court during the year, and 29 new civil cases added during the same period.

Eight thousand five hundred and twenty-three cases were tried in the police court by the special assistant attorney, and 7,733 convictions resulted. The amount of fines imposed was \$45,390, further details of which are contained in the accompanying report of the special assistant attorney.

CORONER.

It is the duty of this officer to hold inquest over persons found dead in the District of Columbia "when the manner and cause of death shall not be already known as accidental or in the course of nature, and to make certain investigations in cases of abortion."

The appropriations for this office for the year were: Salary, \$1,800; contingent, \$700; total \$2,500. The expenditures were \$2,263.95. Leaving unexpended \$236.05.

He reports that he gave certificates in 491 cases. Of these 139, or 28.31 per cent., were white, and 352, or 71.69 per cent., were colored.

The causes of death were as follows:

| | |
|---------------------------|-----|
| Suicide..... | 13 |
| Homicide..... | 18 |
| Infanticide..... | 20 |
| Accident and neglect..... | 69 |
| Disease..... | 312 |
| Still birth..... | 59 |

THE WASHINGTON ASYLUM.

The Washington Asylum includes the municipal almshouses and the workhouse of the District. The first embraces accommodation for the care of paupers, and the second for confining and utilizing prisoners committed thereto for infractions of municipal ordinances of the District.

The appropriation for the support of this institution for the year under consideration were as follows:

| | |
|---------------------------------|-------------------|
| Salaries..... | \$11,680 00 |
| Supplies and contingencies..... | 38,000 00 |
| New female workhouse..... | 20,000 00 |
| | <hr/> \$69,680 00 |

The expenditures were—

| | |
|---------------------------------|-----------------|
| Salaries..... | \$11,661 72 |
| Supplies and contingencies..... | 37,629 63 |
| New female workhouse..... | 19,837 67 |
| | <hr/> 69,129 02 |
| Unexpended balance..... | 550 98 |

The institution should be credited with the work done by its inmates. This work mainly consisted of grading, graveling, and cleaning streets, amounting to 25,193 day's labor, worth to the District at least \$1 per day; the cultivation of the garden and dairy; the making of 3,700 pieces of wearing apparel and bed clothing by female inmates; the repair by male inmates of 1,204 pairs of shoes and 30 sets of harness; the making of 444 coffins for burial of paupers, and other items, amounting in all to \$29,686.42 value in labor.

The new female workhouse, made by the adaptation of one of the old naval magazine buildings on the grounds, is admirably suited for the purpose. It not only furnishes better accommodations for this class, but relieves the overcrowded main building, and removes the evil of confining the male and female prisoners in the same quarters. This workhouse is 36 by 102 feet and three stories high.

Another of the old buildings has been refitted for carpenter shop, and all the outbuildings put in first-class repair.

MILDLY INSANE.

The care by the municipal authorities of the mildly insane of the District as a more economical means of treating them than in the Government hospital, and to make room in that institution for the treatment of more violent cases, has been mooted, and led to the suggestion that accommodations for the purpose be established as a part of the Washington Asylum.

This can be readily effected at a small expense by converting one of the magazine houses into fit hospital accommodations for the persons re-

ferred to. One of these magazine buildings, as stated above, has been converted into a workhouse for female convicts and answers the purpose admirably. With comparatively little outlay another of these buildings can be converted into an asylum for the weak-minded and moderately insane. In all work of this kind the labor of inmates of the workhouse is utilized.

WORKHOUSE.

Twenty-seven hundred and fifty-eight prisoners were received in the workhouse during the year, with a daily average for the year of 223.

ALMSHOUSE.

Two hundred and ninety-one paupers were received in almshouse, with a daily average of 136.

HOSPITAL.

The hospital contained a daily average of 77 patients during the year.

The Commissioners have to report again that the site of the asylum is unfit for the purpose to which it is devoted. Aside from the surroundings, the public jail being on one side and the workhouse on the other, the location is very unhealthy. No one who visits this institution will hesitate to conclude that a change to a more suitable and healthy situation would be much for the better. In addition the place is objectionable to the respectable poor who find such near proximity to the workhouse and District jail offensive. A salubrious, retired suburban situation should be selected, and a plain, comfortable building erected, suitably arranged for the comfort and health of the unfortunates who are to be its occupants. This can be done without great expense, and the benefits to be derived from it would be almost incalculable. The present building could be made useful either as an addition to the workhouse or as a home for inebriates and incurables.

INDUSTRIAL HOME SCHOOL.

This institution is located east of the Tennalltown road, near the city of Georgetown. Its object is to educate in the elementary principles of handicraft, in connection with ordinary mental studies, children between the ages of five and fifteen years, who, from indigency or neglect, would otherwise be without such instruction.

Such children are admitted upon order of the court or request of parents and others, after due investigation as to the merits of each case.

The institution was incorporated March 12, 1872, under the act of May 5, 1870, providing for the creation of corporations in the District by general law.

The sites for the buildings of this institution and the contiguous land used by it belong to the District of Columbia. This ground was deeded to the city of Georgetown by Elisha W. Williams July 19, 1830, and was used by that corporation for almshouse purposes, but is now occupied by this institution under permission of the Commissioners of the District of Columbia.

14 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

The receipts of the institution for the year were as follows:

| | | |
|--|-----------|-------------|
| Balance..... | \$879 12 | |
| Appropriated by Congress..... | 12,000 00 | |
| From District of Columbia for tree-boxes..... | 3,208 25 | |
| From District of Columbia appropriation for almshouse..... | 1,636 60 | |
| From private sources..... | 302 19 | |
| | | \$18,026 16 |

Expenditures:

| | | |
|-------------------------|----------|-----------|
| Salaries and labor..... | 4,737 30 | |
| Supplies..... | 9,634 25 | |
| Building stable..... | 1,720 00 | |
| | | 16,091 55 |
| Balance..... | | 1,934 61 |

The average daily number of beneficiaries was 103, and their average age nine years.

The report of this institution, appended hereto, contains interesting details of its management during the year.

REFORM SCHOOL.

This institution is situated on the Bladensburg road, about 2 miles north of the city of Washington, and has for its object the reformation of boys under sixteen years of age who become liable to punishment by imprisonment, and boys not amenable to parental or other private disciplinary influences.

It was originally incorporated by Congress as a "House of Correction for Boys," by act approved July 25, 1866 (vol. 14, p. 232, U. S. Stat. L.), but the title was changed to the Reform School of the District of Columbia by act of Congress approved May 6, 1870 (vol. 16, p. 119, U. S. Stat. L.).

It is managed by a corporation named "Board of Trustees of the Reform School of the District of Columbia," consisting of seven persons appointed by the President of the United States, on recommendation of the Attorney-General (vol. 19, p. 49, U. S. Stat. L.) and two consulting trustees, namely, one Senator, appointed by the presiding officer of the Senate for a term of four years, and one member of the House of Representatives, appointed by the Speaker thereof for a term of two years (*ib.*, p. 52), and one of the Commissioners of the District of Columbia *ex officio*.

The appropriation for the support and care of the institution for the year amounted to \$38,416; the expenditures were \$38,073.05; leaving an unexpended balance of \$342.95. The school should be further credited with \$2,111.26, which has been deposited in the Treasury to the credit of the United States and the District of Columbia in equal parts, as required by the District appropriation act of February 25, 1885, and was derived from the labor performed on the farm and in the shops connected with the school.

An appropriation of \$15,000 was also made in said act of February 25, 1885, for the erection of a new family building, and an appropriation of \$4,500 for a tank-house, and the improvements will soon be completed.

One hundred and six boys were received during the year, and 73 have become entitled to an honorable discharge.

Eleven hundred and eighty-five boys have been received into the institution since its incorporation.

RELIEF OF THE POOR.

The \$15,000 appropriated for the relief of the poor was applied as follows :

| | |
|---|-------------|
| Pay of physicians to the poor | \$5, 160 00 |
| Medicines for poor | 2, 950 38 |
| Central Dispensary | 2, 400 00 |
| Women's Dispensary | 150 00 |
| Homeopathic dispensary medicines | 240 00 |
| Aged Women's Home | 250 00 |
| Night Lodging House | 400 00 |
| Benevolent Society of Washington | 400 00 |
| Police distribution | 2, 000 00 |
| House of Mercy | 100 00 |
| Miscellaneous individual cases by Commissioners | 358 12 |

CHARITABLE INSTITUTIONS RECEIVING AID FROM DISTRICT REVENUES.

A clause in the District appropriation act approved July 5, 1884 (U. S. Stat. L., vol. 23, p. 127), prescribes that the Commissioners shall thereafter investigate the management of all institutions of charity within the District which may be appropriated for out of the District revenues, in whole or in part, and require an itemized report of receipts and expenditures to be made to them to be transmitted with their annual report to Congress, with such recommendations as they may deem proper concerning the necessity for such institutions, together with a plan for their organization and management and extent of appropriations necessary for their maintenance.

For the purpose of obtaining information as fully in detail as possible concerning the institutions designated in the act aforesaid, the Commissioners selected an officer and sent him to those several institutions, with instructions to investigate their operations and make report to them. The officer in question has made his report, which is appended to and makes part of the present report of the Commissioners, and is referred to as a very complete and reliable statement of the condition, management, and possible capacity for good of the institutions mentioned. In completing his report this officer makes use of the following language, and attention is particularly invited to it as a very clear statement of what is required in order that all of the charities included in the provisions of the act of Congress referred to may have proper supervision:

"The foregoing are all of the institutions which have furnished me with detailed reports, and which I have examined personally under your direction. I would call the attention of the Commissioners to the fact that many of these institutions are duplicating each other's work, and, as a necessary consequence, are much more expensively managed than they would be if the efforts in favor of the objects were more concentrated. It is my opinion that some plan of general control and unification could be adopted whereby the large amounts appropriated out of the District revenue for these various charities could be more prudently, more economically, and more satisfactorily applied to the objects for which the money was appropriated."

PUBLIC SCHOOLS.

No public interest of the District of Columbia is watched with more solicitude by our citizens than are the public schools; no trust demands more wisdom in its management. More than twenty-five thousand rep-

representatives of the hearths and homes of the District seek instruction in these schools every school day of the year, many of whom receive no other scholastic training.

Year by year the schools not only increase in number, but the Commissioners believe that they also improve in their methods of doing work, enlarge their sphere of activity and usefulness, and consequently occupy a more prominent place in the public mind. Their popularity and efficiency are shown alike by the number attending them and by the character of those who seek their benefits. During the past year the schools have had a high degree of prosperity, doing efficient work with little to disturb their quiet progress. The Commissioners have been pleased to note the harmonious working of the different departments and various kinds of schools and to accord to those who do the work in these respective places the credit which they richly merit.

During the year a manual training department has been added to the Washington high school, which, though small because of the amount of money available for its establishment and maintenance, gives great promise of future usefulness. Three hundred boys now receive systematic training in the use of wood-working tools each week. It is proposed at an early day, out of and as far as the means at their disposal will permit, to extend the advantages of this manual training to the scholars of the colored high school.

Thirty-two thousand three hundred and thirty-six (32,336) pupils were enrolled in the schools during the year, of which twenty thousand six hundred and ninety-six (20,696) were white and eleven thousand six hundred and forty (11,640) were colored.

The average enrollment was 26,911, and the average attendance 25,029. Many details of interest are given in the reports of the superintendents. Of particular interest are the tables that show the relations of the different departments or kinds of schools, both for white and colored pupils.

Appended to this report as part thereof will be found the report of the trustees of public schools and of the superintendents of white and colored schools in this District. These documents challenge the most careful consideration of Congress, because from them it appears that there exists a startling inadequacy of school-room accommodation for the needs of the District.

The Commissioners believe that every child seeking admission to the schools should be provided with a seat. The nation's capital should not be behind other cities of corresponding size in furnishing educational facilities to its children.

COLORED HIGH SCHOOL BUILDINGS.

Arrangements must soon be made for other accommodations for the colored high and normal schools, as the Commissioners have been notified to surrender possession of the leased building on 17th street, between P and Q streets, northwest, in which those schools are located.

The Commissioners contemplate the construction of a school building on the lot upon which the Sumner Building is situated. If this should meet the approval of Congress, the schools now occupying the Sumner Building could be transferred to the new building, leaving the Sumner Building to be occupied by the high school.

FIRE DEPARTMENT.

The appropriation for the support of the fire department for the fiscal year ended June 30, 1886, were:

| | |
|----------------|--------------------|
| Salaries..... | \$83,400 00 |
| Buildings..... | 1,000 00 |
| Apparatus..... | 4,000 00 |
| Supplies..... | 19,750 00 |
| | <hr/> \$108,150 00 |

The expenditures were:

| | |
|----------------|------------------|
| Salaries..... | 83,380 24 |
| Buildings..... | 994 48 |
| Apparatus..... | 4,035 34 |
| Supplies..... | 18,352 91 |
| | <hr/> 106,762 97 |

Leaving an unexpended balance of 1,387 03

There are 7 engine and 2 hook and ladder companies in this department, which are housed in as many buildings. The chief engineer recommends that houses for companies No. 2, on D near Twelfth northwest, and 4, on Virginia avenue, between Four-and-a-half and Sixth southwest, be provided, on the ground that the house of the first-named company is inconveniently situated and unsuitably arranged, and that the house of the latter company is very disadvantageously located with reference to the Baltimore and Potomac Railroad tracks in front of it.

The *personnel* of the department consists of 101 officers and men.

The apparatus of the department consists of 8 steam fire engines in good condition, excepting Nos. 1 and 2, which are undergoing general repairs; 8 hose carriages in good condition; 2 hook and ladder trucks, fully equipped, and one old one without equipments, and other minor appliances; 19,100 feet of hose, 2,900 feet of which is unserviceable, and 44 horses.

The report of the chief engineer of this department herewith submitted gives full details of its operations during the year, and the Commissioners are gratified to be able to note that the department has merited its reputation for good conduct and efficiency.

TELEGRAPH AND TELEPHONE SERVICE.

This service includes all the telegraph and telephone lines and other electrical plant owned or controlled by the District for the purposes of the police and fire departments.

The appropriations for the support of this service for the fiscal year ended June 30, 1886, were:

| | |
|---|-------------------|
| Salaries..... | \$8,440 00 |
| Supplies, labor, telephone rental, &c. | 7,000 00 |
| | <hr/> \$15,440 00 |

Expenditures were:

| | |
|--------------------------|-----------------|
| Salaries..... | 8,440 00 |
| Supplies, labor, &c..... | 6,124 81 |
| | <hr/> 14,564 81 |

Leaving unexpended balance of 875 19

The service was much improved during the year by putting Gamewell electric mechanical gongs in engine-houses Nos. 1, 2, 4, 5, and 6, and the addition of 6 new fire-alarm signal boxes.

The plant of this service consists of 136 fire signal boxes and police signal boxes and about 500 miles of line with the necessary batteries, &c.

The superintendent of this service recommends that all the wires of the District government in the cities of Washington and Georgetown,

D. C., be placed underground, which he estimates would cost \$150,000, and states at length in his report herewith the grounds upon which his recommendation is based. The Commissioners deem it unnecessary to refer here to the matter of discontinuing the present unsightly and dangerous pole system further than to state that in their estimates for the fiscal year ending June 30, 1888, they included an item of \$10,000 to commence the work of putting underground the wires of this service.

INFLAMMABLE OILS.

The District greatly needs better laws than now exist respecting the storage of petroleum and other highly inflammable and explosive fluids. The Commissioners are now obliged to rely upon the act of the legislative assembly of August 23, 1871, which merely limits the amount that shall be kept in any one building. They should be authorized to regulate the tests, storage, and sale of such fluids, and prohibit the sale of spurious and low-grade oils.

There is now pending in Congress a bill to authorize the District authorities to make necessary regulations on the subject, which the Commissioners hope will receive early and favorable action.

POLICE.

The appropriation for the support of this department for the fiscal year ended June 30, 1886, were as follows:

| | | |
|---|-----------|--------------|
| Salaries | \$308,060 | |
| Rent of headquarters and stations | 2,160 | |
| Fuel | 2,000 | |
| Site and building new station | 15,000 | |
| Repairs to stations | 1,500 | |
| Miscellaneous and contingent | 11,000 | |
| Police signal telegraph, Seventh precinct | 2,600 | |
| The expenditures were | | \$342,320 00 |
| | | 341,571 97 |
| Leaving unexpended balance of | | 748 03 |

PERSONNEL.

The *personnel* of the police department is as follows: 1 major and superintendent; 1 captain; 1 inspector; 1 property clerk; 2 clerks; 4 surgeons; 9 lieutenants; 20 sergeants; 95 privates, class 1; 140 privates, class 2; 17 station-keepers; 8 laborers; 2 messengers; 1 driver; 1 ambulance driver; 1 assistant ambulance driver; 1 assistant driver. Of this force the superintendent, captain, and twenty-five others are mounted.

The force also has, in common with the fire department, the benefit of the professional advice and service of four surgeons, who are appointed by the Commissioners. They examine all applicants for positions on the force and respond to all demands for their professional services in all cases of sickness or injury of members of the force. They receive \$480 each per annum from the District revenues, which is very moderate compensation for the services of physicians of the professional standing of those now filling these positions, and it would be unwise and inhuman to intrust this responsible duty to any but those thoroughly competent.

The District is divided into eight police districts, each of which is in charge of a lieutenant.

POLICE SIGNAL AND PATROL SYSTEM.

This system has been in operation here for about two years. It facilitates concentration of the force in cases of emergency, relieves officers

from dragging prisoners great distances to station-houses and leaving their beats meanwhile unprotected, and greatly increases promptness in responding to demands of almost every character upon the force.

The Commissioners became so favorably impressed with the reports of this system by the officers in charge of the first, fourth, and sixth precincts, where it is in operation, that they included an item in their estimates for 1888 to provide for its extension to the second and fifth precincts. They know of no branch of the public service that better justifies the expenditure required for its introduction and maintenance.

INCREASE OF THE FORCE.

The superintendent of police recommends an increase of the force by 100 men, and supports his recommendation by impressive data and argument.

While the Commissioners are of opinion that an increase of the force to that extent, at least, is necessary for the adequate protection of the District, the present District revenues will not admit of provision for such an increase without too greatly impairing the utility of other departments of the District government.

In view of these considerations, the Commissioners, in their estimates for 1888, which were submitted to the Secretary of the Treasury on the 1st of October last, recommended an increase of 10 sergeants and 45 privates as the best that could be done with due regard to other District interests, and know no reason for modifying that judgment. The existing laws (vol. 22, p. 412, U. S. Stat. L.), limiting the number of privates to 250, should be modified to admit of an increase of the force.

MARTIAL RECORD OF APPLICANTS.

The department suffers a serious drawback in the requirement that appointees thereto shall have served in the Army or Navy of the United States. This restriction was originally designed as a means of rewarding those who had been in the military and naval service of the Government during the civil war; but as nearly all who belong to that class are now too far advanced in years to avail themselves of this preference, its present effect is merely to confine selections for this force to a class of persons neither specially qualified for such duty nor sufficiently numerous to present a satisfactory scope of selection, and it ought to be repealed.

The department maintained its reputation during the year for efficiency and devotion to duty.

HEALTH OFFICER.

This officer, under the direction of the Commissioners, is charged with the execution and enforcement of all laws and regulations relating to the public health and vital statistics, &c., being principally the impounding of domestic animals improperly at large or without license; removal of garbage, night-soil, and dead animals; medical treatment of indigent sick; registration of births, deaths, and marriages; issue of burial permits; inspection of plumbing; inspection of food, and abatement of nuisances.

The appropriations for the support of his office during the year were:

| | |
|---------------------------|-------------|
| Salaries | \$23,980 00 |
| Contingent expenses | 5,150 00 |
| Removal of garbage | 15,000 00 |
| | <hr/> |
| | \$44,130 00 |

The expenditures were:

| | | |
|---------------------------------------|-------------|--------------------|
| Salaries | \$23,978 00 | |
| Contingent expenses | 4,668 32 | |
| Removal of garbage | 15,000 00 | |
| | | <u>\$43,646 32</u> |
| Leaving an unexpended balance of..... | | 483 68 |

REMOVAL OF ASHES.

The health officer recommends that ashes be removed at public expense. As the accumulations of ashes generally receive additions of refuse organic matter, and thus often become highly deleterious to the public health, it would seem that they should be removed by District authorities without charge.

COMMISSIONERS OF PHARMACY.

The commissioners of pharmacy are three pharmacists and two physicians appointed by the Commissioners of the District under act of June 15, 1878 (vol. 20, p. 137, U. S. Stat. L.). It is their duty to decide upon the professional competency of persons desiring to conduct the business of compounding, retailing, or dispensing drugs and medicines in the District of Columbia, and keep a register of the names of those qualified to do business as pharmacists here.

They are entitled to receive \$3 from each person they register without examination as a pharmacist, and \$10 from each person they examine, which amount is applicable to the expenses of the commission.

Their financial statement for the year, which is made an appendix of this, is as follows:

| | | |
|--|----------|-----------------|
| Balance on deposit | \$331 69 | |
| For 21 examinations | 210 00 | |
| For 23 registrations without examination | 69 00 | |
| | | <u>\$660 69</u> |

Expenditures:

| | | |
|--------------------------------------|--------|---------------|
| Salary of secretary, two years | 150 00 | |
| Stationery | 16 50 | |
| Rent, light, fuel, and labor | 120 00 | |
| | | <u>286 50</u> |
| Balance..... | | 374 19 |

The total number of registrations to July 22, 1886, was 350.

CEMETERIES.

The proximity of several cemeteries to the cities of Washington and Georgetown will soon require the interdiction of interments in some of them in the interest of the public health and convenience.

DEATH RATE.

The health officer reports the death rate for the year to have been 17.96 per 1,000 for the whites and 32.35 for the colored population, or 22.80 per 1,000 for the total population, as against a death rate of 24.99 per 1,000 during the preceding fiscal year.

INSPECTION OF PLUMBING.

The report of the inspector of plumbing demonstrates the value to the public health of this department, not only in its capacity as a re-

medial agent, but as a means of developing among all classes of people a higher appreciation of sanitary considerations in the construction and care of buildings.

This officer has recently, at the request of Department officers of the General Government, examined some of the buildings under their charge, found them in a deplorably unsanitary condition, and submitted plans for the improvement of their drainage and plumbing, which have been accepted.

The proper performance of the duties of this office requires a thorough practical knowledge of sanitary laws and mechanism, and it is satisfactory to note, as largely due to this service, the decrease in the death-rate of the District reported by the health officer.

INSPECTION OF FLOUR.

There are two inspectors of flour in the District of Columbia, whose duty is to examine and brand, with reference to the legal standard, every barrel or half barrel of flour manufactured in the District or brought thereto for sale, and perform other duties imposed upon them by law, with the object of protecting the public from imposition.

They report that they have examined the following quantity during the year:

| | Barrels. |
|------------------|----------|
| Washin ton | 141,704 |
| Georgetow | 46,769 |

They are compensated by fees, of which they receive from the owner or agent 1 cent and the flour drawn out by the auger for each barrel they inspect.

INSPECTION AND MEASURE OF WOOD.

There are three inspectors and measurers of wood for the District. Their duty is to measure all firewood landed or sold in the cities of Washington and Georgetown, and to see that it conforms in quality and quantity to the legal standard. They receive their compensation in fees, of which they are allowed to charge 9 cents per cord of wood examined and measured.

These officers report that the following quantity of wood has been measured during the year:

| | Cords. |
|--------------------------|--------|
| Rock Creek district..... | 5,785 |
| Potomac district..... | 16,287 |
| Anacostia district..... | 6,862½ |

INSPECTION AND MEASURING OF LUMBER.

There are five inspectors and measurers of lumber in the District, whose duty it is to inspect and measure all boards, plank, joist, scantling, and timbers brought to and sold in the District, not previously inspected, measured, and marked pursuant to law, and mark thereon the number of square feet they contain, and who receive payment therefor in fees from the buyer and seller in equal parts at rate of 30 cents per 1,000 feet, board measure.

They report the quantity measured by them during the fiscal year ended June 30, 1886, to be 25,461,678 square feet.

SEALER OF WEIGHTS AND MEASURES.

It is the duty of the sealer of weights and measures to examine, at least once every six months, every scale, weight, and measure in every store, shop, market, or other place where goods are sold, and brand the same, and it is not lawful to use any scale, weight, or measure not properly branded by said inspector, who receives payment for his services in fees.

This officer recommends the passage of a law requiring all vegetables and fruit to be sold by weight, and that the cans containing canned goods should have the quantity contained in each can plainly marked thereon, with a penalty of fine and confiscation for deception in this respect.

MARKETS.

The District government owns and manages three markets, two of which are in Washington, called the eastern market and western market, respectively, and one in Georgetown. The reports of the officers immediately in charge of them are herewith appended.

The eastern market is situated on the northwest corner of Seventh and C streets southeast:

| | |
|-------------------------------|------------|
| Receipts for the year | \$2,649 50 |
| Expenses: | |
| Salary of market-master | \$1,200 00 |
| Repairs | 80 56 |
| | <hr/> |
| | 1,280 56 |
| Balance | <hr/> |
| | 1,358 94 |

The western market is situated on the southeast corner Twenty-first and K streets northwest:

| | |
|-------------------------------|------------|
| Receipts for the year | \$6,327 82 |
| Expenses: | |
| Salary of market-master | \$1,200 00 |
| Repairs | 706 79 |
| | <hr/> |
| | 1,906 79 |
| Balance | <hr/> |
| | 4,421 03 |

The Georgetown market is situated on M, opposite southern terminus of Potomac street, in Georgetown:

| | |
|-------------------------------|------------|
| Receipts for the year | \$1,208 18 |
| Salary of market-master | \$900 00 |
| Repairs | 35 42 |
| | <hr/> |
| | 935 42 |
| Balance | <hr/> |
| | 272 76 |

During the year embraced in this report the District employed an officer at a salary of \$1,200 per annum, styled the clerk and market-master of the Center Market, a private corporation, but it was found the duties of the position were not important enough to warrant the payment of a salary. The office was therefore abolished, and the performance of its duties imposed upon another District officer, who discharges them without additional compensation.

WASHINGTON MARKET FUND.

The District also receives \$7,500 per annum from the Washington Market Company as rental for the grounds occupied by its buildings.

This rental was originally \$25,000 per annum, but was reduced to the aforesaid sum by an agreement between the market company and the District authorities on March 18, 1873.

CODE OF DISTRICT LAWS.

Every branch of the District government, the courts, and the business portion of the public generally, suffer great inconvenience from the lack of a well-digested compilation of the laws of the District. The laws affecting the District have emanated from as many sources as there have been forms of government in the territory comprising the District of Columbia, and can only be found by reference to as many different volumes. They include the common and statute law of England and the laws of Maryland which prevailed in the District when the territory which now comprises it was ceded by the State of Maryland to the General Government, ordinances of the corporations of Washington, Georgetown, and the levy court, laws of the legislative assembly of the District, orders of the Commissioners, and acts of Congress. Many of the foregoing are obsolete and others conflicting or useless. Several attempts have been made to get a code enacted, but so far no measure of this kind has met the approval of Congress.

ESTIMATES.

The Commissioners also append a transcript of their estimates for the amount necessary for the support of the government of the District of Columbia for the fiscal year ending June 30, 1888, the original estimates having been submitted to the Secretary of the Treasury on the 30th of last September. This statement also shows the amounts appropriated for the fiscal year ending June 30, 1887.

The Secretary of the Treasury has for the last few years forwarded to Congress the estimates as modified by him only, and so many inquiries are made by members of Congress as to the Commissioners' views in regard thereto, that they submit a copy of their original estimates in order that it may be seen where the judgment of the Secretary and that of the Commissioners in the premises differ.

WATER SUPPLY.

It has not needed the successive annual reports of the Commissioners for several years past to call attention to the serious shortcomings of the water distribution, and it is necessary only at this time to embody and emphasize the numerous and increasing complaints of its chronic inadequacy and frequent failure.

The actual amount of water delivered to the city by the existing aqueduct, estimated as amounting to 150 gallons per head per day to the citizens living within reach of the mains, is so largely in excess of any possible present requirement as to make it doubtful to what as a leading cause should be attributed the marked and exasperating deficiency in pressure and delivery over considerable areas of the city. The report of Captain Symons upon this subject contains data of much interest. In extensive tracts of the northwest, southwest, and southeast, and in the vicinity of the Capitol, the pressure in the mains is greatly below that which the static head due to difference of level would call for, and in numerous dwellings the supply rises no higher than the first floor, and in many is actually intermitted altogether, through the greater por-

tion of the day. This condition of affairs is one that at some period all cities reach, not the less soon that the actual available supply is often ample to meet every need for many years to come. It is the familiar fact that want coexists with waste, that water freely running from main to sewer without having discharged any useful function whatsoever in its course will not rise into the supply pipes of dwellings, nor fill their flushing tanks and bath tubs, that no luxury of modern fittings and multiplication of plumbing appliances, nor even the prompt payment of the annual water rental charged by the District, will avail to secure the desired and desirable abundance, so long as the greater part of the volume reaching the city passes rapidly from the mains into the waste conduits. The actual amount of this waste cannot be less than two-thirds of the entire supply of Potomac water through the aqueduct.

The statistics upon this subject are found in numerous water reports and are quite conclusive.

In European cities, where the visible supply and catchment areas are comparatively limited, and where, in consequence, as need has demanded, greater care and economy have been practiced, the supply per head varies from 15 to 50 gallons per day, notwithstanding that, as in Paris, large amounts are sometimes used for ornamental purposes and for washing the streets. London has about 40 gallons per day, and most of the other English cities less. In America, on the other hand, where the sources are more ample and rivers and lakes of magnitude can be drawn upon indefinitely, no care has as a rule been exercised to determine the real requirements and regulate the use of water until a dangerous scarcity was established. Having reached that point, in the absence of exact information as to real utilization, and dreading the popular opposition to restrictive measures, the capacity of the water system, whether by pumps or gravity, has been taxed to the utmost, while strenuous efforts were making to increase the pumping plant or absorb additional areas of water-shed. In consequence, the draft upon the mains has reached amounts quite out of proportion to real uses, and in some cases the daily supply per head has steadily risen in course of time to 80, 90, 100, and even 150 or 160 gallons.

The following is the daily supply to the cities named: Boston, 90; Buffalo, 130; Chicago, 121; Detroit, 144; Milwaukee, 106; New Haven, 100; New York, 100; Philadelphia, 70; Saint Louis, 71; and yet in nearly all of these cities this enormous volume is practically inadequate to furnish the supply for actual and pressing necessities. In some of the New England cities, on the other hand, notably, Providence, where intelligent and successful efforts to regulate the matter of water distribution have established valuable data, the daily delivery is between 35 and 40 gallons, although large quantities are used for manufacturing purposes, and there is no complaint of scarcity nor undue domestic economy practiced. It may, therefore, be reliably assumed that 40 gallons per day per head of population is ample even in a manufacturing city. If this amount be compared with the 150 gallons drawn in Washington, the difference represents a manifest waste of over 100 gallons per day. The sources of this, as is usual, are probably several. Captain Symons is inclined to consider that the existence of rusty and rotten mains, laid many years since and imperfectly cast and connected originally, is responsible for a large portion, the impervious coating of concrete pavements covering the streets concealing the fact. It is quite probable that such is the case, although to what extent can be a matter of surmise only. But there are visible and obvious sources of waste which would readily account for a large proportion of the whole. De-

fective plumbing is partly responsible, and the tens of thousands of leaky appliances, each with its perpetual stream, in the aggregate, waste large amounts.

A still greater amount is due to appliances left running at full head either by intention or by neglect. With no more than 20 pounds pressure a water-closet or hydrant will flow some 6,000 gallons per day, and if there are but 1,000 of these, a very moderate supposition, 6,000,000 gallons, one-fifth of the entire supply of the city, are wasted daily from this cause alone.

The hotels and other large buildings, where water is freely drawn, are probably the chief sinners in this regard—and the application of meters and the system of meter charges to these large consumers would at once check the excessive draft; but it is in the great Federal buildings that the useless flow is seen to the largest extent. The numerous employés and the crowded condition of these huge offices make needful many closets and urinals, and as a rule the flow of water through them is perpetual and the consumption enormous. The sole remedy is a radical modification of the plumbing arrangements, and in this respect much popular misapprehension exists. A constant flow is supposed to be advantageous, while in fact it is not the continual movement of water but the scouring influence of a sudden discharge, putting the pipes under pressure, that produces the maximum of effect with the minimum of consumption. Then, again, the numerous forms of automatically operated closets, filling and emptying at frequent intervals without reference to their actual use, waste large quantities of water.

These matters can all be regulated in course of time, and some of them are even now within the control of the District authorities; but in the more important cases Congress only can grant the needful aid by appropriations or directions.

In view of the interval that must elapse before the completion of the new aqueduct and reservoir, now constructing under charge of the Federal Government, and of the real sufficiency of the existing supply were it properly utilized, it will be needful to employ all practicable means to restrict the waste, and thereby delight the housekeeper within the city boundaries with the unaccustomed luxury of a rapid and bountiful delivery. Beyond the Boundary, upon the higher levels not attainable by the gravity flow, the sole recourse must be to pumping stations taking their supply from the aqueduct and delivering to the greater elevations.

The suburb known as Mount Pleasant, for example, is without either city water or sewerage facilities, and as this and other similar nuclei of population are rapidly increasing both in number and area, but a brief period can elapse before an urgent demand for these necessities of civilization must be answered, or the development of the District, and by possibility the public health, be seriously affected.

In view of these impending expenditures and the necessity of new mains, and of the increased charges against the water revenues, due to the division of the cost of the new aqueduct and its adjuncts between the Federal and District governments, and of the fact that the law requires that the water rentals must meet all District expenditures for the water service, it may prove to be needful that the water charges be increased. This action the Commissioners would adopt with reluctance, but nevertheless feel assured that the very moderate charges now made in the District could be sufficiently increased without causing undue dissatisfaction to citizens who would be glad to have the water at any

reasonable cost, and would greatly prefer to pay the rates charged in other cities, could an ample supply thereby be secured.

At the present time, for the higher levels of Washington and Georgetown, two pumping stations exist whence the water is forced into the mains. These stations, upon the operation of which considerable areas and a large population are entirely dependent, are badly equipped, their service is entirely inadequate, and their reliability dubious. At each station is a single pump, without reserve of any kind or possibility of succor in case, as must at some time happen, the long and hard-worked machine shall break down. The obvious remedy is the erection at each station of an additional engine with needful boilers and connections.

In the matter of quality the Potomac generally furnishes a wholesome and acceptable fluid which frequent analyses show to be fairly free from dangerous contaminations. But its frequent turbidity, due to rains and floods, sometimes (as in the case of last spring and early summer) protracted over a long period, impairs the potability of the water and injures its repute. If public filtration be resorted to to correct this difficulty the cost would be so large as to prevent the immediate consideration of establishing the plant, and for the present recourse must be had to partial subsidence in the basins and subsequent clarification in the house.

Some modifications of the existing laws relating to the water service are needed. At present it requires the petition of the owners of the majority of the property fronting upon the line of a proposed pipe to authorize the District government to lay the main. This occasions serious inconvenience, both to the citizens and the authorities. Since in numerous cases owners or tenants desiring water are unable for one reason or another to secure the requisite number of signers.

As the furnishing of water is not a favor but an imperative municipal obligation and duty, the District Commissioners should be authorized to lay mains wherever, in their judgment, it is desirable to do so within the prescribed limit of the appropriation made for that purpose, and thereafter to collect the water tax in the usual manner.

It is also desirable that the Commissioners be authorized to provide for the enforcement of the penalties for the infraction of the water regulations by some method other than the summons to the police court. In other cities a breach of regulations is simply and effectively met by turning off the water, if, after due notice, the prescribed penalty is not paid.

As water is a commodity procured at public expense and for sale by the District, and only delivered upon condition of payment of charges and observance of regulations, the deprivation would not only be just, but would usually compel payment of penalty and greater care in observing the regulations of the District.

SEWERAGE.

The sewerage of cities, although an indispensable element of modern life and municipal engineering, is, nevertheless, the possible source of the gravest danger to the public health, unless at every point, however minute, it is thoroughly and skillfully worked out, the planning and construction most carefully executed, and the service faithfully watched. The responsibility for this work is the greater that of necessity the conduits for the conveyance of foul and putrescible waste matters, which may at any point become the focus of disease, from the dwelling to a safe point of discharge are laid beneath the surface and in many

cases are not susceptible of actual examination after construction and connection. There is, therefore, no part of municipal administration presenting more complex and difficult problems, and calling for the display of greater technical knowledge and integrity of execution than the sewer system, which, furthermore, is subject only to general principles, and requires that the details in every case shall be carefully adapted to local conditions.

The existing system of sewerage in the cities of Washington and Georgetown consists in part of the result of earlier imperfect efforts to meet the requirements of the case, and in part of later constructions guided by better knowledge and more scientific methods. Very much has been accomplished by careful thought and intelligent direction to amend former defects and to adapt the system of discharge of waste matters to the present and prospective needs of the community. But much remains to be done, and even were all existing deficiencies provided for, the gradual extension of the system, as the area and number of population increase, over districts exhibiting marked variations of contour and elevation, will always call for the application of the best engineering skill and require considerable annual expenditures.

The completion of the Boundary sewer during the past season marks an important era. The purpose and progress of this great work have been fully set forth in previous reports, and need only be referred to at this time. The two main outlets for the sewerage of Washington, viz, the Tiber Creek and B street sewers, have been from time to time overcharged during storms and occasionally have vomited their contents upward through the man-holes into the streets. This overloading was in part due to the unnecessary admittance into the subordinate sewers of an immense quantity of rainfall and surface drainage from a large tract, coming down the slopes lying to the northward of the city. This drainage the Boundary sewer now intercepts and carries eastward into the Eastern Branch, thereby relieving the city sewers proper of this unnecessary and dangerous burden, and relegating to them the responsibility only of caring for the rainfall and sewerage within the city limits.

As the estimates indicate, however, considerable additional expenditures are now urgently required. A large amount of new sewers is called for to follow the extension of streets and the very active building enterprises now in progress, and the law requires that before an improved pavement can be laid, the underground conduits for gas, water, and sewage must be put in. Furthermore, a large amount of drain pipes laid many years ago are now unserviceable. Having been laid with open joints the roots of trees have penetrated into them, and with great rapidity and in large volume have become matted within the pipe, so as to seriously reduce and in some cases completely stop the flow. Efforts to remove these obstructions, though in some cases partially successful, are generally unavailing, and the sole remedy is to lay new pipes to take the place of the old. Being now laid with the joints in cement mortar, no further difficulty of the same kind is to be apprehended.

The problem of the extension of the sewer system to the outlying suburbs, such as Mount Pleasant, previously referred to, is more serious. Up to this time no attempt has been made to furnish these minor aggregations with the proper and necessary facilities, although they are charged and pay full urban rates of taxation. To continue this neglect is not only inequitable but dangerous since the haphazard and imperfect methods of discharge of waste matters now of necessity resorted to cannot be indefinitely prolonged without offending modern ideas of

decency, creating perilous nuisances, and infringing the health regulations of the District.

Within a comparatively brief period, also, it will be needful to undertake constructions to modify the present sewer outlets and protect both the reclaimed flats and the harbor of Washington from the deposit of and contact with sewage. For this purpose it may be found advisable to construct another large intercepting sewer along Water street on the harbor front, for the purpose of conveying all the city sewage along the south front to some point below the Washington barracks for discharge into deep water. The problem is an important one that need not now be discussed, but which will shortly press for solution and must be carefully worked out in advance.

In view of the large amount of work doing and to be done in connection with the sewerage system, the recommendation made by Captain Symons and concurred in by Captain Griffin, for the creation of a sewer department, is approved, although, owing to the pressure upon the revenues, the proposition is not at this time embodied in the estimates for the ensuing fiscal year.

There is no legislation authorizing the Commissioners to compel owners of houses to connect their premises with sewers, unless the houses actually front upon a line of pipe, and in consequence the owners of alley or other properties refuse to secure the laying of sewers for houses built by them, as they might do under the permit system.

It is respectfully recommended that an enabling act be passed to meet cases of this sort, as the multiplication of dwellings without proper sewer connections in the built up-ports of the city is highly undesirable from every point of view, save that of the owner, who is more ready to economize expenditure than to make decent and suitable provision for the health of his future tenants and the safety of the neighborhood.

STREET PAVEMENTS.

As shown in the table entitled "Summary of Street Pavements, July 1, 1886," which accompanies the report of Captain Griffin, the aggregate of street surfaces of all descriptions between curbs within the city limits is about 5,200,000 square yards, or 233½ lineal miles, of which, in round numbers, 1,550,000 yards, 30 per cent. of the whole area, are paved with the modern asphalt, coal tar distillate, and asphalt blocks; 10 per cent. are paved with granite and trap blocks; 10 per cent. with cobble and rubble; 4½ per cent. with macadam; 14½ per cent. with gravel; 7,000 square yards with a relic of the old wood block, and 1,600,000 square yards, or 31 per cent., are unimproved.

It will be observed that the area covered with modern improved pavements and that quite unimproved are nearly equal. The use of the stone blocks is restricted to business localities where the freighting is rough, and to slopes, upon which the sheet pavements might prove too slippery. The old wood pavement has been nearly obliterated, and the rough-stone pavements are in course of removal. The gravel and macadam streets also are being gradually covered with smooth pavements as urgency demands and the appropriations permit.

The distribution of the yearly appropriation for the improvement of streets and avenues is the perpetual cause of jealousy and heartburning, as the amount available rarely exceeds a small percentage of the total cost of the work petitioned for and eagerly urged upon the Commissioners, whose duty and responsibility it is both to decide upon the sum which in their judgment should be allotted to that purpose from the

District revenues and be recommended to Congress for appropriation, and to select from the long list of streets awaiting improvement those which the public interest suggests should take precedence of the much larger remainder, and whose advocates are naturally dissatisfied.

In order to analyze the subject and ascertain in what proportion the previous annual appropriations have been allotted to the several sections of the city, the following table has been prepared, exhibiting the actual cost of improvements made in the several localities for the period 1878-1887, their area, population, and taxable valuation, with the percentages of the totals in each case:

Expenditures for improvements of streets and avenues, of area, valuation of taxable property, and population.

| Years. | Georgetown. | | Northwest. | | Southwest. | | Southeast. | | Northeast. | |
|-------------------|-------------|-----------|--------------|-----------|-------------|-----------|-------------|-----------|--------------|-----------|
| | Amount. | Per cent. | Amount. | Per cent. | Amount. | Per cent. | Amount. | Per cent. | Amount. | Per cent. |
| 1878-'79 | \$40,892 78 | .094 | \$311,427 21 | .718 | \$19,882 85 | .046 | \$47,706 74 | .11 | \$13,730 14 | .032 |
| 1879-'80 | 11,931 82 | .071 | 96,213 15 | .569 | 15,185 90 | .09 | 28,115 93 | .166 | 17,637 69 | .104 |
| 1880-'81 | 20,920 80 | .07 | 233,416 18 | .745 | 30,129 96 | .10 | 8,187 74 | .027 | 17,269 17 | .057 |
| 1881-'82 | 14,159 07 | .05 | 168,478 97 | .60 | 46,618 20 | .165 | 35,673 35 | .125 | 16,906 24 | .06 |
| 1882-'83 | 11,240 09 | .037 | 223,790 44 | .732 | 20,495 57 | .067 | 47,214 88 | .154 | 2,987 44 | .01 |
| 1883-'84 | 18,165 29 | .053 | 175,632 66 | .508 | 60,319 16 | .174 | 26,543 53 | .077 | 65,149 01 | .188 |
| 1884-'85 | 21,935 13 | .082 | 116,671 93 | .439 | 48,700 73 | .183 | 42,193 51 | .159 | 36,503 06 | .137 |
| 1885-'86 | 29,051 92 | .111 | 116,142 67 | .444 | 27,599 29 | .105 | 60,404 41 | .231 | 28,472 91 | .109 |
| 1886-'87 | *19,238 00 | .071 | 147,855 93 | .541 | 33,337 73 | .122 | 15,748 51 | .058 | 56,925 00 | .208 |
| | 187,534 90 | .07 | 1,579,629 13 | .60 | 302,269 39 | .115 | 311,188 60 | .118 | 255,580 66 | .097 |
| Grand total | | | | | | | | | 2,636,202 69 | |

* Estimated.

| Section. | Area. | | Population. | | Valuation. | | Average per cent. |
|------------------|----------|-----------|-------------|-----------|-------------|-----------|-------------------|
| | Acres. | Per cent. | No. | Per cent. | Amount. | Per cent. | |
| Georgetown | 590.95 | .092 | 14,322 | .076 | \$4,615,273 | .046 | .071 |
| Northwest | 2,720.79 | .4154 | 107,430 | .570 | 78,525,687 | .780 | .588 |
| Southwest | 957.42 | .1462 | 27,228 | .144 | 6,366,756 | .063 | .118 |
| Southeast | 1,247.40 | .1904 | 21,561 | .114 | 6,191,195 | .061 | .122 |
| Northeast | 1,033.56 | .1578 | 18,008 | .096 | 4,986,908 | .05 | .102 |

The result of this tabulation and comparison is rather remarkable. The total expenditures for the nine years ending July 1, 1887, are \$2,636,000, of which Georgetown has had 7 per cent., the northwest 60 per cent., southwest 11½ per cent., southeast 11 $\frac{8}{10}$ per cent., and northeast 9 $\frac{7}{10}$ per cent. Comparing areas, the proportions are as follows: Georgetown 9 per cent., northwest 41½ per cent., southwest 14 $\frac{6}{10}$ per cent., southeast 19 per cent., and northeast 15 $\frac{8}{10}$ per cent. Comparing population, Georgetown has had 7 $\frac{6}{10}$ per cent., northwest 57 per cent., southwest 14 $\frac{4}{10}$ per cent., southeast 11 $\frac{4}{10}$ per cent., and northeast 9 $\frac{6}{10}$ per cent.

Of assessed taxable valuations, which are the basis of the revenues derived from taxation and represent the proportionate amounts collected from each section, Georgetown owns 4 $\frac{6}{10}$ per cent., northwest 78 per cent., southwest 6 $\frac{3}{10}$ per cent., southeast 6 $\frac{1}{10}$ per cent., and northeast 5 per cent.

In seeking to fix upon a basis of distribution of street improvements to these several localities, supposing that local data should determine what was equitable, the adoption of either area, population, or taxable valuations would probably be objected to on the part of those whose interests would thereby be adversely affected. For example, the northwest, paying 78 per cent. of the taxes, would probably incline to the opinion that not less than three-fourths of the total expenditure should be made in that section, while the northeast, with nearly 16 per cent. of the total area, would be quite clear that the allotments should be made upon the acreage basis, and so with the rest. Avoiding a decision upon this point, and giving each element equal weight by averaging the three percentages, the result is shown that the expenditures for nine years approximate with singular closeness to the mean percentage as above ascertained. It may further be stated that the schedule of streets to be improved for the year ending June 30, 1888, recently prepared by the Commissioners and forwarded to the Secretary of the Treasury for transmittal to Congress, closely follows similar proportions, although without premeditation to that end. These data furnish a conclusive answer to those who have declared that certain sections have been favored and others slighted. The contrary is shown to have been the case, and that on the whole the several sections have been fairly treated with reference to the appropriations for street improvements.

REPAIRS TO STREET PAVEMENTS.

Under the provisions of the contracts for laying improved pavements, the contractor obligates himself to maintain and if necessary to renew them in case of failure or need of repair for the period of five years, and as year by year these guarantees expire, the District must assume the responsibility of an annually increasing amount of street surface.

Captain Griffin's report gives important information in this regard and the table of yearly increase in concreted streets to be maintained by the District has been prepared to show the considerable amounts which will be needful under this head of appropriation for several years to come, both by reason of the natural increase of the street surface and because the annual appropriations for three years previous to the current one remained stationary, taking no account of the additional labor thrown upon the District. It results from this insufficiency of appropriation that the work of repair and resurfacing rendered necessary by wear has fallen in arrears, and must as rapidly as possible be recovered if the street pavements are to be maintained in good condition. Thus, whereas the successive appropriations for the years 1884, 1885, and 1886 were for \$50,000 each, increased to \$65,000 for the current year, the table as completed makes it clear that the appropriation for 1888 should be not less than \$90,000, and for three successive years about \$100,000.

A few words upon this subject may be appropriate. The modern Washington street pavements consist practically of a concrete base, either hydraulic or bituminous, which constitutes the real pavement, with a surface coat or skin designed to receive the wear from contact, and readily capable of renewal when needful. The base is not intended to support traffic, although in fact capable to a certain extent of doing so, but the result of permitting the surface coat to wear down and expose the base is to incur the risk and expense of repairing holes in the concrete itself, which rapidly enlarge and deepen wherever established. The theory of these pavements, therefore, is that they must at all times

be maintained in smooth and unimpaired condition, and that their economy of maintenance can be secured only by systematic and prompt repair. Captain Griffin states that even with the comparatively liberal appropriations above indicated, there will remain, on July 1, 1891, 140,000 square yards of pavement having an average period of service of sixteen years, and of this amount not less than 50,000 yards ought to be resurfaced at once.

STREET CLEANING.

The need for increased appropriations under this head to keep pace with the annually enlarging area to be covered, and the need for more frequent sweeping of certain streets as traffic increases, is urgent.

The contract rate of street sweeping for the past year was $27\frac{1}{2}$ cents, and for the current year is $25\frac{1}{2}$ cents per 1,000 square yards. The actual number of yards to be swept during the year is regulated by the amount of the appropriation, and this necessitates the preparation of a schedule of streets to be swept, designating in each case the frequency of the operation.

There are now but four streets swept daily, but five swept every other day, and but ten swept twice a week. Of the remainder, one hundred and thirty-one can be covered but once a week, and one hundred and twelve once in two weeks.

The result is that during the intervals the streets accumulate litter, and become very untidy, and especially is this the case during the fall of the leaves.

It is very desirable that the street-cleaning appropriation be augmented, so that several streets now needing more frequent attention than they receive may be transferred from the present list to a higher one. The daily schedule should be doubled, the tri-weekly increased 60 per cent., and about 10 per cent. of the remaining streets should be transferred upward. The increased cost of this, as well as of the annual additional area of streets, would amount to about \$7,000 yearly, and, adding the cleaning of paved alleys and a moderate sprinkling of macadamized streets, an appropriation of \$70,000 is recommended for the year of 1887-'88.

STREET LIGHTING.

The total number of gas lamps in service on July 1, 1886, and maintained at the expense of the District, was 4,622, an increase of 131 during the year. The cost of the service, including that of the new lamps, was \$98,000. The actual amount of street illumination in Washington is insufficient, and the city, with its wide spaces and abundant foliage, often gives the impression of being badly lighted. Under existing arrangements, in order to bring the expenditures within the appropriation, the lighting of the lamps is limited in hours and entirely omitted when the moon is regarded as high and full enough to answer the purpose. As is inevitable with this dependence upon natural sources of light, the moon occasionally fails to keep its engagements, and, masked by clouds, has at times left the city in almost total darkness. It is believed that no other city of equal importance in the country exhibits this naive trust in the heavenly illuminants. But to do otherwise, and arrange for the regular lighting of the gas-lamps daily from dark to dawn, would enhance the cost of the service about 25 per cent.

There are also numerous applications for new lamps in localities recently improved and unlighted, and in the region bordering on Boundary street additional gas lamps are greatly needed.

Out of the \$100,000 appropriation for 1885-'86, Congress authorized the expenditure of \$10,000 for electric lighting, and, in pursuance of this provision, contract was made for the maintenance of forty-three lights at designated points on Pennsylvania avenue and F street from sunset to sunrise. The gas lamps in the same neighborhood were at the same time omitted.

The Commissioners believe that for its large areas and wide streets, Washington might, with advantage, follow the example of other cities, and contemplate the enhancement of the public safety and the attractiveness of its principal avenues by gradually enlarging the system of electric lighting. The brilliancy of Pennsylvania avenue at night from the numerous electric lights maintained by the shops and other places of business, is in itself the most conclusive argument.

The inspector of gas and meters, as now provided for by a law of 1874, occupies an anomalous relation to the District.

He is appointed by the President and confirmed by the Senate, but he is paid by the District, and his duties are, practically, and to all intents and purposes, those of a District officer.

It is recommended that the law be amended so as formally to constitute the inspector a District official.

TELEGRAPH LINES.

The existence in the streets of unsightly poles, with their cross-bars sustaining numerous lines of telegraph wires has in all modern communities been recognized as not only an undesirable feature of street architecture, but a serious detriment to several municipal interests.

The natural alternative is to put the wires beneath the surface, but the companies have resisted this, on the ground that no practicable system of underground wiring has yet been devised, and because the cost of changing the system would be very heavy. The former argument is no longer tenable, and the latter does not carry sufficient weight to warrant the further postponement of so necessary a provision.

The great capitals of Europe make no such exhibition of poles and wires as disfigures our streets, imperils the safety of passers, and hampers the operations of the fire department. For several years systems of underground telegraphy have been in operation, notably in France and Germany, and New York, Philadelphia, and Chicago have taken steps to compel the companies to construct or use underground conduits. The necessity of protecting to the fullest extent the business of telegraphy is recognized to the utmost as an indispensable adjunct to civilization, and nowhere in greater degree than by the Commissioners; but at the same time it behooves them to represent to Congress other public needs as well, and to urge that body to take such present action towards abolishing air lines in the Capital as shall seem most judicious.

The District government in this matter has not itself been free from reproach. Its own police and fire, telegraph and telephone system consists almost entirely of air lines upon poles, and this notwithstanding that the local telephone company uses cables with entire satisfaction, and the telegraph companies have from time to time been urged and pressed to abandon some of their lines.

Advantage has been taken of applications from the telegraph companies for permits to bargain for a reduction in the number of poles, and this has proceeded to a point when there are lines of north and south poles on Sixth and Twelfth streets which the company has practically abandoned, but which are still maintained, by reason of the fact

that the District wires are strung upon them. An appropriation of \$10,000 is asked by the Commissioners to enable them to relieve themselves of this unpleasant dilemma, as the company naturally requests that the District should either surrender these poles or pay for them.

Seventy-five hundred dollars of the amount asked will suffice to bury the District wires on Seventh and Twelfth streets and the remainder will be required for similar purposes at other points. The appropriation is earnestly recommended by the Commissioners.

PERMIT WORK

The permit system, under which the District furnishes the material and the owner pays for the labor required for a given work, is a development which has secured economical results and given general satisfaction. It is applicable to the repair and construction of sidewalks upon streets not specifically appropriated for, and the paving and sewerage of alleys and other work from which, as a rule, the principal beneficiaries are the owners of contiguous property. The control and performance of the work by regular District employes secures the satisfactory character of the work and inures to the advantage of the citizen by costing him only the actual labor bills.

The annually enlarging demand for work to be done under this system, and the advantageous results, lead inevitably to the increase in the estimate which is recommended to Congress for favorable consideration.

STEAM RAILROADS.

Ample consideration and urgent recommendation have been made in previous reports from the Commissioners of the District relative to the serious disadvantages to certain portions of the city due to the occupancy of public streets and avenues by steam-railroad tracks. Elaborate plans have from time to time been formulated and presented to Congress with the view of reducing the number of streets so affected and concentrating the several lines now entering the District, so as to conserve in the fullest measure the admitted necessity for the most convenient railway communications both for freight and passengers, and the interests of the public in the development of dwelling areas and the enjoyment of unobstructed highways. In general the main idea has been to concentrate the lines upon those routes which shall do the least injury to the public interest and combine the facilities of the two great trunk lines without injustice to either. These repeated and urgent recommendations have not to this time been embodied in the legislation requisite to give them effect, although numerous bills exhibiting various features have from time to time been introduced.

While in general approving the idea of a common entrance the Commissioners do not at this time urge upon Congress any radical alteration of existing routes, but do earnestly invite attention to the necessity for compelling some minor alterations which could be presently effected at no great cost and at the same time serve important public interests.

The Baltimore and Potomac Railroad is without adequate and proper facilities for the transaction of its increasing and important business in the form of yards and depots for the storage of idle cars and the receipt and delivery of freights; in consequence of which large public areas are practically appropriated by the company, which has laid numerous tracks in the avenues which they are authorized to run through, to the serious inconvenience of citizens and the cutting off of conven-

ient access to and from the heart of the city. The company should be required to procure by purchase or lease sufficient ground other than the public streets and avenues for its needful purposes, and thereafter to abandon to such extent as shall be practicable the constant and permanent occupancy of the public highways.

It is not necessary now to advocate the abandonment of the Sixth street station, the convenience of which to the public at large is so great as to warrant its present retention; but an immense relief could be effected if the railroad were required to remove its tracks from Sixth street to the westward, and to sink them to such level as would afford convenient opportunity for crossing them. The present obstruction of Sixth street, which the frequent passage of trains and engines renders too dangerous to cross at grade, would thereby be removed and the possibility of continuous communication between the Capitol and the White Lot be restored, to the great advantage of all that portion of the city and of the general public.

The Baltimore and Ohio road has two lines of track, the Washington and Metropolitan branches, which enter the city limits at different points, the former crossing Boundary near the intersection of Ninth street east and L street north, and thence crossing numerous streets occupies a considerable portion of I street and North Delaware avenue, crosses North Capitol street, and terminates at its depot on New Jersey avenue and C street northwest.

The Metropolitan Branch, coming down the valley between Soldiers' Home and Brentwood road, crosses the Boundary near New York avenue and First street east, and occupies this latter street to the junction with the main branch between F and G streets.

There are two features in this system which the Commissioners regard as capable of immediate and economical modification, and which would not necessarily interfere with the possible future consolidation of the lines of the Baltimore and Ohio and Pennsylvania systems. One is that the depot of the Baltimore and Ohio be removed to the eastward of North Capitol street, in order that this fine avenue should be unobstructed from the Capitol northward, and possibly terminate above Massachusetts avenue, which would then be continuous through the city.

The other feature, in the judgment of the Commissioners, is the absence of any necessity for two lines of entrance. If the Metropolitan Branch down the valley above referred to and upon First street east be abandoned, the communication can be made at a point near the Bunker Hill road, a mile and a half outside of Boundary street, crossing the Brentwood road either above or below grade and connecting with the Washington branch north of the National Fair Grounds. For the accommodation of the traffic of the Metropolitan branch, additional rails could be laid along the present route of the main line, and thereby the very serious obstruction to the development and prosperity of the northeast section of the city be reduced one-half.

The Commissioners earnestly press upon Congress the necessity for early action.

HORSE RAILROADS.

The street-car service of the city is very far from being satisfactory to the citizens of the District or adequate to the public need. A certain amount of this service is recognized as an imperative necessity, and requisite authority has been given by Congress from time to time for the establishment of such lines of horse railroads as could be shown to

be demanded. Nevertheless at the present time these tracks and their surroundings constitute the most serious disadvantage to the elaborate system of perfected street pavements. The form of the rail now in general use is objectionable in that it projects above the pavement and of necessity leaves grooves between the rails and the adjacent blocks. This particular form of rail was adopted years ago under the provisions of an ancient law intrusting to the Secretary of the Interior and the companies the determination of its form, and the companies contend that this form of rail having been adopted by the authority designated to select it cannot now be changed by the authority of the District government. It is obvious that were a flat grooved rail to be substituted for the present form, and several examples of this are in successful use in other cities, much of the difficulty owing to the present form of rail would be obviated. The space between the rails and tracks is now generally paved with cobble, a pavement which the companies insist is the best for purposes of traction, although it has long since been regarded as obsolete and barbarous for the passage of vehicles. The result is that in some of the asphalt streets a double line of car track with cobble interspaces and with stone blocks for 2 feet exterior to the outer rails, will completely destroy the character of a street pavement, however, elaborately constructed, by the substitution, for a smooth and proper surface, of the rough and noisy stones.

Other cities, such as Baltimore, in streets having improved pavements, have judiciously and properly required the companies to pave between their tracks and rails, at least with comparatively smooth block, either of granite or asphalt, and no good reason exists that in Washington, where the street pavements constitute so prominent a feature and so undoubted an advantage, similar provisions should not be made. Since the question of authority may be successfully disputed it is recommended that Congress empower the Commissioners to make suitable regulations with regard to this important matter, and to order both such rails and such paving material as shall least impair the public service of the avenues and streets.

The companies' charters constitute a valuable property which as a rule cost them nothing. Their horses contribute a greater proportion to the labor of keeping the streets clean than perhaps any other one cause, and toward the expense of this the companies contribute only their license tax and taxes upon real property.

Furthermore the conduct and service of the roads, independent of their street plant, is far from satisfactory. The cars are neither well kept, well cleaned, well ventilated, nor warmed. Their number in the morning and evening when the great tide of travel is moving to and from the several places of business, are quite insufficient, and in consequence the cars are unduly crowded to the serious inconvenience and discomfort of the public.

The Metropolitan Railway, leading from the upper part of Georgetown, by way of P street, Connecticut avenue, and F street, to the Capitol, uses only one-horse cars without a conductor, and compels every passenger to deposit his own fare in the box and the driver to regulate the movements of his horse, to look out for passengers, and make change; this notwithstanding the fact that the charter of the company expressly provides that it shall employ first-class cars equipped with all the modern improvements for the convenience and comfort of passengers.

It would seem to be quite clear that the employment of a conductor who shall relieve the driver of all responsibility except for the stopping

and starting of the car, and the passengers from the inconvenience of being compelled to make change and deposit their own fare, and whose presence within the car or upon the rear platform would constitute some protection to passengers from unruly or improper conduct, is certainly such a convenience as the charter would distinctly imply. Other roads are subject to the same criticism.

It is respectfully recommended that Congress authorize the Commissioners to require the companies to improve their service, and to make such reasonable and general regulations with regard to their running as shall be in the public interest.

HARBOR FRONT.

Under a recent decision of the Attorney-General of the United States the District Commissioners are charged with the care and responsibility of the harbor front, imposing upon them the necessity of regulating its use, making leases, and collecting dues.

For the repair of the harbor wall and adjustment of wharfage facilities considerable expenditures will be required for the present and immediate future, since the existing structures are largely the result of outlays for temporary purposes and cheap constructions of doubtful stability. The necessity for an immediate appropriation to be at the disposal of the Commissioners was shown last spring when the heavy rainfall carried out a portion of the bulkhead and washed a considerable area of Water street into the river. In the absence of any appropriation for the repair of the harbor wall, it was needful to construe the necessity as one for the restoration of the street and the appropriation for street repairs had therefore to be drawn upon to meet the emergency. An estimate of \$10,000 for the ensuing fiscal year has been made for this and other needful purposes, including the securing of a suitable steam tug, to aid the harbor master in the discharge of his duties, the police in the protection of the river front, and to enforce compliance with the fishery law, and the fire department in the extinguishing of fires. The Commissioners should be authorized by Congress to make and enforce suitable harbor regulations, as they have already been authorized to make building, plumbing, and health regulations.

The Commissioners expect that the returns from leases and wharf charges will amply reimburse the District treasury.

In connection with the harbor, attention may be invited to the future necessity of measures for the reclamation of the extensive marshes bordering the city front. The Potomac flats are in course of recovery by filling, and this, when completed, will be a most important conservator of the healthfulness of the city and an addition to its advantages, whether the reclaimed area be devoted to pleasure or business purposes. A similar area of probably equal extent exists upon the Eastern Branch, which was formerly a navigable stream with channel capacity for deep draughts, but which in the course of years has shrunk to very moderate dimensions and to a great extent has abandoned its valley to the growth of marsh grasses.

An extension of the efforts of the Federal Government to reclaim and obliterate all the marshes contiguous to the city may well be recommended by the District authorities to the attention of Congress.

POLICE REGULATIONS.

The District is at present without any code of police regulations, such ordinances as exist being the survival of the old corporation laws of the

cities of Washington and Georgetown. In consequence the movement of traffic in the streets and the safety of persons and property in the public spaces in particular are not susceptible of proper regulation by the Commissioners.

An illustration of the anomalous condition of affairs in this respect may be given. A wagon driving into a vehicle on Pennsylvania avenue and imperiling the horse as well as the conveyance and the safety of the occupants is not at the present time punishable by any penalty, the sole recourse of the injured individual being a suit in which it will be requisite for him to prove that actual damage was inflicted, and no redress can be obtained, however derelict the colliding vehicle, unless such damage can be established.

A similar occurrence in Georgetown would subject the offender to penalty for careless driving.

There are also needed regulations to compel owners to equip dwellings with suitable fire escapes, and the Commissioners should also be authorized to regulate the dimensions of dwellings which are intended for human occupancy. At the present time there is no provision of law by which the Commissioners can prevent the multiplication in the interior of squares and elsewhere of contracted dwellings of inadequate dimensions, and permits are taken out for the construction in large numbers of domicils having a frontage of 11, 10, and even a less number of feet. It would seem to be entirely proper that the regulation of this important subject should be in conformity with the best modern practices as adopted in other cities.

SANITATION AND PLUMBING.

There is great need in the District of stricter supervision and a more rigid application of the laws of hygiene and sanitation, especially in connection with the plumbing appliances introduced into houses. Nominally all plumbers licensed to do work of that character are bonded to compel observance of the plumbing and health regulations. Practically there is no ascertainment of the applicant's qualifications for the very important work he undertakes. The physician is not permitted to practice without being able to present evidence of his competency nor the chemist to dispense medicine without certification of his knowledge of chemistry and skill in compounding. The work of the plumber is perhaps even more important to the safety of the household than that of either the physician or chemist.

It is urgently recommended that measures be taken to provide for the examination by a competent authority of all persons applying for licenses to do plumbing work and to reject any that should be found to be disqualified.

Furthermore, there is doubt as to the applicability of the existing plumbing regulations to buildings constructed previous to their adoption. In the case of all new houses the requirement is made that the plumbing plans shall be submitted for inspection and approval and the work be examined before final acceptance. So far, therefore, as the future construction of dwellings is concerned the regulations can effect the protection of health, but with regard to existing dwellings, whose defects are much more serious owing to the fact that the modern sanitary plumbing is practically the growth of the last ten years and that thousands of houses in Washington have had no readjustment of their work since their original construction, the power on the part of the District authorities to compel their needful amendment is questioned.

DISTRICT HEADQUARTERS.

Repeated recommendations have been made by the Commissioners of the District with regard to the offices and the necessity for improved quarters. The present building, while conveniently situated, is totally unsuited to its purpose. It has less than half the area which is actually needed for the transaction of the District business. It is exposed to danger from fire, which would destroy invaluable records. It is in a deplorably unsanitary condition, and portions of the structure may be considered as actually perilous. The health of the employes, who are compelled for long hours every day to discharge their duties in a vitiated atmosphere, in rooms without ventilation or light, with gas or lamps necessarily burning, is in constant peril and process of impairment. The citizens themselves who are compelled to resort to the District buildings upon business, whether to pay water rents or taxes or to confer with the Commissioners and their assistants, are seriously incommoded by the lack of accommodation. The lease of the present building expires with the fiscal year and the owners have been notified that at that time its tenancy will be abandoned.

A moderate amount for the rental of a suitable building is included in the estimates for the ensuing year; but the Commissioners, while prepared to accept almost any condition of affairs other than their retention of the present quarters, earnestly urge upon Congress the propriety and necessity for the construction of a suitable District government building of sufficient dimensions to quarter all the branches of the service independently of any other occupancy.

It is earnestly represented that while generous appropriations are made for public buildings in the several States and Territories, the need of similar conveniences for the District of Columbia has been so far overlooked. There are numerous sites entirely appropriate to the purpose in question which could be secured either without expense or at a small cost; but as such a building will require some years for its completion, the Commissioners hope that Congress will favorably consider the requested increase in the appropriation for rental to enable them to be in suitable quarters until such time as a permanent building can be provided.

TOPOGRAPHICAL SURVEY.

The topographical survey of the District, which has been in progress for some years past under annual appropriations of \$5,000, is considerably more than half completed. The data secured are of the very greatest value in projecting the future extension of streets and avenues into the suburban region and planning lines of communication from the city to the boundary of the District. The information thus gained is applicable to any purpose, whether warlike or peaceful, and having now been continued to a point beyond argument as to its desirability, should if possible now be completed at the earliest possible day and further expenditure under this head be omitted.

An estimate for this purpose has been submitted and is respectfully recommended to Congress.

BRIDGES.

The communication between the District and the State of Virginia across the Potomac River and from the city across the Eastern Branch at the present time is singularly defective. Long Bridge being occu-

pied by railroad tracks, with trains frequently passing, is practically useless for ordinary traffic, except to such staid and sober animals as by degrees have been accustomed to their close proximity. The structure itself is antiquated in type and unsightly in appearance, and at some time in the future could be judiciously replaced by a more elevated structure which should permit the free passage at least of tug-boats without recourse to the draw. The old Aqueduct Bridge, connecting from Georgetown, which for years past has been known to be in a dilapidated condition, is fortunately about to be transferred to the control of the Federal Government. Its unsafe condition has been several times reported upon by responsible authorities, and advantage was taken by the Commissioners of the falling out of a portion of the bottom of the Aqueduct to make renewed examination. The result of this was to show clearly that the structure, owing to inherent defects of plan, and its perishable material, a large percentage of which was rotten and only constituted an unnecessary load upon the remaining portion, was in such a condition as to force the Commissioners to close it in order to protect the public safety. This action the Commissioners took with much reluctance, owing to the serious inconvenience of business people and residents of Virginia having occupation in Washington, especially as the only other bridge which could be used with safety was the Chain Bridge, requiring a detour of several miles in order to effect the desired communication.

It is to be hoped that when the Federal Government shall have assumed possession of the Aqueduct Bridge it will shortly thereafter be replaced by a suitable structure.

The Commissioners approve of the proposition made at the last session of Congress for the construction of a handsome bridge of imperishable material between Washington and Arlington, approximately upon the line of New York avenue extended. A bridge of suitable design and material would be the most prominent feature of the south front of the city with the single exception of the Washington Monument, and the establishment of communication with the very attractive region of Arlington and its vicinity controlled by the Federal Government would seem to be a worthy and proper object. But the Commissioners are not prepared to recommend this structure if the District revenues should be in any wise drawn upon for its completion. The urgent and pressing needs of the District proper are so great that for years to come all the revenues to be derived from taxation and appropriations by Congress will be needed for expenditure within the District.

The case is different with regard to improved communication across the Eastern Branch. At the present time there are but two bridges, viz, Benning's and Anacostia, furnishing communication. Neither of these structures is adequate to its purpose, nor sufficiently centrally located. A structure extending from the eastern terminus of Pennsylvania avenue across the river is urgently needed and its due proportion of the expense of this construction may well be borne by the District government. There is no bridge across Rock Creek at the present time which can be regarded as satisfactory whether in point of stability or needful accommodation. Those within the city proper, upon Pennsylvania avenue, M and P streets, are narrow and not entirely secure. They should as early as possible be replaced by more substantial structures of greater width and permanence.

The county bridges across Rock Creek at Woodley lane road and Pierce Mill road are wooden structures of considerable age upon which repairs have been made from time to time. These also should be re-

placed by iron or masonry structures of greater elevation and accommodation.

Two bridges have been ordered by the Commissioners and are under construction, one of wood over Pope's Run, on the Anacostia road, and one of iron over Rock Creek on the Klinge road, both of which are rendered needful to avoid fording the streams in question.

EXTENSION OF STREETS AND COUNTY ROADS.

The original plan of the city of Washington, in close conformity with which it has been actually constructed, is probably the best for the purpose that could have been devised. The rectangular system of north and south and east and west streets is overlaid by a system of diagonal avenues, making it possible to proceed in a direct line to almost any point, and the numerous intersections give rise to multiplied areas which have dotted the city with ornamental parks and reservations. The natural variations of contour within the former civic limits, not being excessive, permitted of such moderate changes of elevation as to render all the streets and avenues of practicable grade, and the Washington of to-day is the joint creation of its original designer, of the persistence with which for so many years of village existence that plan was adhered to, and ultimately of the energy and force with which its completion was accomplished. As the south and east limits were naturally those of the river fronts and the western those of Rock Creek, so the northern boundary skirted the hill or bluff which at a considerable elevation overlooks the city, and the present Boundary street defines its course.

As the city grew and taxes augmented, small settlements and holdings established themselves upon the outlying region, then the county of Washington. This involved at the time no serious disadvantage, but as the urban district became more fully occupied it was evident that sooner or later it would overflow its ancient limits and of necessity absorb into its jurisdiction a much larger area than was originally contemplated.

The great lines of communication between city and country had long since been established—Benning's road, Bladensburgh road, Brentwood road, Seventh street road, Fourteenth street road, and, from Georgetown, the Tenuallytown pike—and as the outlying settlements grew and multiplied they conformed in some measure with the main routes, but in other respects displayed little prevision of the future enlargement of Washington and no regard for the future extension of its streets and avenues.

This condition of affairs, notwithstanding the endeavors that have been made from time to time and with partial success to produce an amicable understanding between city and county in regard to the better adjustment of their streets, still endures, and if the extension of the Washington avenues into the suburbs through the numerous village subdivisions is now to be effected, it can only be by the condemnation of numerous small private holdings and the payment of considerable sums in damages to the dispossessed owners. That this must and will be done to a certain extent does not admit of doubt, but the fact indicates the necessity, in the case of other regions as yet undeveloped, of more sagacious administrative prevision than has heretofore been exhibited, and the absence of which in the past will involve a large expense in the immediate future.

But it is not alone the multiplicity of small holdings and the lack of conformity of suburban with urban streets that oppose the universal rectilinear prolongation of the city avenues. This at the worst is a matter of expense only. Topographical considerations likewise interpose objection. The differences of level and contour in much of the region lying beyond the boundary are too formidable to be overlooked or disregarded. In particular is this the case with the hill north of the city, and westward from Eleventh or Twelfth street to Rock Creek, and the difficulties of this character are still more greatly magnified when the question arises of effecting convenient and practicable communication across the deep and in places precipitous Rock Creek valley. An examination of the map of the District discloses the fact that, with the exception of the north and west, the city is already supplied with convenient avenues of travel and traffic, with easy grades, leading to all other points, and the topographical difficulties inherent in the Rock Creek region and beyond to the north and west are such as to have prevented heretofore the opening of suitable lines of communication through this region. The Tennallytown road leading from the comparatively lower levels of Georgetown to the altitude of 400 feet above tide is the only present convenient means of access thereto. The Woodley Lane and Pierce Mill roads from Washington are in effect country roads winding their way down the hill-side, crossing the creek on wooden bridges a few feet only above the level of the stream, and thence making the difficult and circuitous ascent to the greater elevation of the Tennallytown pike.

Fully cognizant of the difficulties already referred to arising out of the multiplication of minor subdivisions lying beyond the city limits and barring the extension of streets and avenues in their direction, and of the topographical difficulties inherent in the undeveloped area lying to the northwest, the very irregularity and altitude of which constitute for some purposes its greatest advantage, the District Commissioners, having carefully considered the needs of the District and with the aid of the topographical information afforded by the recently completed maps from surveys made under their direction, have contemplated the rectilinear extension of several of the existing avenues where it was believed to be desirable and where the rights of way and the dedication of easements could at the present time be procured without cost. It would have been well had action of this kind been taken many years since, but it is now imperative that advantage should be taken of the willingness of owners of unimproved property to conform their plans to the needs of the District and to dedicate such portions of their holdings as are necessary to secure the future establishment of important lines of communication.

The county roads in general, which exist exterior to the city limits, are winding in direction and variable in their grade, in many cases being so steep as to be practically prohibitory for other than merely pleasure purposes. For this reason the Commissioners have considered that when it became a question of the extension of an important line of communication the critical element of grade should be carefully conserved. This is especially needful in the case of the perfected asphalt pavements of Washington, which an undue steepness of slope renders dangerous. The maximum grade now in use in the city for smooth pavements is 4 or 4½ feet in the hundred. The Capitol is reached by a 6 per cent. grade, which is of undesirable steepness, and the northward extension of Sixteenth street now climbs up a 10 per cent. grade, which is practically prohibitory to traffic.

The Commissioners, therefore, decided that in extending any given avenue, its rectilinear prolongation should be preserved as far as practicable, and the avenue should be so laid out as to have no grade in excess of $4\frac{1}{2}$ per cent.

With the appropriation of \$30,000 made for the first time in the current appropriation act for that special purpose, the necessary information has been secured, and in some cases dedications of certain lands lying in the course of the extension of streets have been accepted where such action involved no cost. This was the case with the northward extension of Eighteenth street in a rectilinear direction through the grounds of persons who were prepared to make the grant.

The extension of North Capitol street beyond the Boundary to the Soldiers' Home, constituting a direct line of communication from the Capitol to the only great park that Washington has, and in connection therewith the prolongation of Rhode Island avenue to Lincoln avenue, through the same holdings, were considered a matter of sufficient importance to warrant the action of the Commissioners, after ascertaining that the holders of lands through which these extensions pass would, in a majority of cases, be willing to dedicate the full width of the avenues, and feeling assured that in the remaining instances the assessment of damages would be fully offset by that of the benefits to the remaining adjacent property.

In the case of Massachusetts avenue, after careful examination of the ground and of the accurate maps, recently submitted by the officer in charge of the surveys, and after the preliminary running of several trial lines and the making of computations based thereon, the Commissioners decided upon a certain route as being that which was most in conformity with the public requirements and the topography of the ground and the most economical in construction, and assurances were secured from the owners of the property through which the avenue would pass that they were prepared to dedicate to the District the entire width of the avenue, along any line upon which the Commissioners should determine, and thereafter lay out their subdivisions in conformity therewith.

The extension as projected crosses the creek at an elevation of 95 feet above tide and has no grade in excess of $4\frac{1}{2}$ per cent. It is rectilinear, with the exception of one deflection of about 19 degrees.

This deflection is forced by the configuration of the Rock Creek Valley, which bending eastward occupies a large part of the direct route, and would render the construction of the avenue at the requisite elevation enormously costly, and in effect impracticable. The Oak Hill Cemetery also constitutes a formidable difficulty, as the necessary embankment would cover a considerable part of its occupied area. Furthermore the direct line, after traversing Rock Creek Valley at an acute angle and passing the cemetery, enters a somewhat narrow valley, in which the construction of an avenue of the width and character of the one in question would be difficult and costly, and would then practically terminate at a low point on the Tennallytown road within the limits of Georgetown. It is proper to say that while this important matter has been under careful consideration for a number of years, the conclusions heretofore reached after prolonged study of the subject have been the adoption of the line now proposed by the Commissioners, as the records of the engineer department of the District show.

The route as proposed passes through the northward portion of the grounds acquired by the Federal Government for the purpose of establishing the Naval Observatory and as no authority exists in any of the

Executive Departments nor in the District government to open a line of communication through these grounds except with the consent of Congress, the matter is respectfully submitted for the consideration of that body.

Apprehension has been expressed that the existence of the avenue through these grounds might in some measure interfere with the work of the Observatory, but this it is believed will not be the case. Provision can be made if necessary for the smooth coating of the road in its vicinity; and, furthermore, most of the work is conducted at night, when the passage of vehicles would be infrequent. The Commissioners would regard with disfavor any proposition to utilize the proposed avenue for the purpose of establishing car lines or any similar traction facilities. From its central position and superior width the importance of Massachusetts avenue to the city of Washington is greater than that of any other except Pennsylvania avenue. At the present time it alone traverses the city unobstructed (except by the Baltimore and Ohio Railroad tracks) from the Eastern Branch to Rock Creek, and its extension westward to effect a junction with the Tennallytown road, and in the future its possible still further prolongation to and beyond the boundary of the District will constitute it the most superb and attractive highway in the world.

A minor country road leading from the Klinge Ford on Rock Creek to the Tennallytown road, with the width of 75 feet, having been offered to the District without cost, was accepted after examination. It lies conveniently midway between the Woodley Lane and Pierce's Mill road, and in directness and ease of grade is superior to either.

It is not contemplated that any considerable expenditure will be required in the immediate future for the above or similar objects. The current appropriation for these purposes is \$30,000 only, although the Commissioners have asked for the fiscal year ending June 30, 1888, the further sum of \$60,000, in view of the possible condemnation of and payment for lands lying between the Soldiers' Home and Rock Creek.

For many years past this problem of the extension into the suburban regions of the streets and avenues of the city has been pressing for attention, and at the last session of Congress several bills, all containing features of more or less value, were introduced and received partial consideration, although the only legislative outcome was the passage of a Senate resolution which, relating to the provisions of Senate bill No. 2201, called upon the Commissioners to report to Congress at the ensuing session their views as to the proper laying out of all lines of communication, and of the cost thereof, within the area designated in the bill, viz, between Rock Creek, Piney Branch, Spring road, Rock Creek Church road, and the Soldiers' Home. The Senate omitted to make any special provision for the expense of this investigation. It has therefore necessarily proceeded with such assistance as during the active work of the season could be given by the regular engineer force, aided by the employment of an additional draftsman. The information has to a large extent been gathered, and report will be made to Congress in time to receive legislative consideration.

PARKING COMMISSION.

The work of planting and caring for the trees which in great number and variety constitute so important a feature of the streets, has been most intelligently directed by the Parking Commission, and the Commissioners desire to express their appreciation therefor.

The abnormal and repeated invasions of caterpillars destroyed many trees and seriously injured the appearance of the city. Whether or not remedial measures of sufficiently moderate cost can be applied is a question to be determined, but at least it has been ascertained that the poplars and box-elders are the greatest sufferers, and can with advantage be replaced by other varieties.

PUBLIC PARKS.

With all the skill and attention that has been used to beautify the city upon the very fortunate plan for its construction adopted nearly a century since, no effort has been made to secure a public park of any considerable dimensions. The grounds of the Soldiers' Home at the present time constitute almost the only feature of this kind within the District limits, with the exception of what is known as the Mall, which is practically limited to the space between Sixth street and the Monument. The construction of a drive in the Rock Creek Valley, which with a narrow border of acquired land would constitute a park and driveway of very great natural beauty and advantages, has been for many years pressed upon public attention, and was earnestly recommended to the consideration of Congress by the present Commissioners in making report to the last session of Congress upon a bill designed to carry the project into effect. Should this proposition meet with the approval of Congress it is desirable that action should be taken at an early day before the further occupancy of the valley, and while the owners are willing, as in a majority of the cases they will no doubt be found to be, to transfer to the District or Federal Government the right of way and other needful easements.

The Commissioners believe that another desirable feature which would enhance the attractiveness and use of the Mall could be secured by the opening through its center line of a straight driveway of 150 or 200 feet in width over which vehicles might be authorized to move at greater than the regular rates of speed, this driveway to be separated from another carriageway on each side by suitable fencing, the exterior road to be available for the slower moving carriages and vehicles, and the inner designed for swifter movement and pleasure purposes.

In considering the betterment of this portion of the city the Commissioners respectfully invite the attention of Congress to the desirability of the improvement of the south side of Pennsylvania avenue, at present occupied by constructions of insignificant appearance, and in many cases dilapidated condition. Could this side of the Avenue be devoted to the construction of such public buildings as from time to time should be found necessary, the appearance and character of the Avenue, which is now seriously impaired by the dimensions and condition of its bordering buildings, would be very greatly improved, and an undesirable neighborhood be in part obliterated and restricted to narrower limits.

W. B. WEBB,
S. E. WHEATLEY,
WILLIAM LUDLOW,
Commissioners, District of Columbia.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 45

Commissioners' estimates for 1888, as submitted to the Secretary of the Treasury.

| | Estimated for 1888. | Appropriated for 1887. |
|--|------------------------|---------------------------|
| Executive office: | | |
| Two Commissioners, at \$5,000 each..... | \$10,000 00 | \$10,000 00 |
| Engineer Commissioner..... | 924 00 | 924 00 |
| Secretary..... | 2,500 00 | 2,160 00 |
| Clerk..... | 1,500 00 | 1,500 00 |
| Clerk..... | 1,400 00 | 1,400 00 |
| Two clerks, at \$1,200 each..... | 2,400 00 | 2,400 00 |
| Messenger..... | 600 00 | 600 00 |
| Messenger..... | 480 00 | 480 00 |
| Driver..... | 480 00 | 480 00 |
| Contingent expenses, including printing, books, stationery, horse-shoeing, and other necessary expenses..... | 2,500 00 | 2,500 00 |
| | <u>22,784 00</u> | <u>22,444 00</u> |
| Assessor's office: | | |
| Assessor..... | 3,000 00 | 3,000 00 |
| Two assistant assessors, at \$1,600 each..... | 3,200 00 | 3,200 00 |
| Special assessment clerk..... | *1,700 00 | (*) |
| Clerk..... | 1,200 00 | 1,200 00 |
| Two clerks, at \$1,000 each..... | 2,000 00 | 2,000 00 |
| License clerk..... | 1,200 00 | 1,200 00 |
| License inspector..... | 1,200 00 | 1,200 00 |
| Assistant license inspector and clerk..... | 900 00 | 900 00 |
| Clerk and messenger..... | 900 00 | 900 00 |
| Contingent expenses, including printing, books, stationery, detection of frauds on revenue, and other necessary items..... | 1,200 00 | 1,000 00 |
| | <u>16,500 00</u> | <u>14,600 00</u> |
| Collector's office: | | |
| Collector of taxes..... | 4,000 00 | 4,000 00 |
| Cashier..... | 1,800 00 | 1,800 00 |
| | | †1,700 00 |
| Book-keeper..... | 1,600 00 | 1,600 00 |
| Four clerks, at \$1,400 each..... | 5,600 00 | 5,600 00 |
| Clerk..... | 1,200 00 | 1,200 00 |
| Messenger..... | 600 00 | 600 00 |
| | | ‡2,000 00 |
| Contingent expenses, including printing, books, stationery, and other necessary expenses..... | 1,800 00 | 700 00 |
| | <u>16,600 00</u> | <u>19,200 00</u> |
| Auditor's office: | | |
| Auditor..... | 3,000 00 | 3,000 00 |
| Chief clerk..... | 1,800 00 | 1,800 00 |
| Book-keeper..... | 1,800 00 | 1,800 00 |
| Clerk..... | 1,600 00 | 1,600 00 |
| Clerk..... | 1,500 00 | ..... |
| Two clerks, at \$1,400 each..... | 2,800 00 | 2,800 00 |
| Two clerks, at \$1,200 each..... | 2,400 00 | 3,600 00 |
| Clerk..... | 1,000 00 | 1,000 00 |
| Messenger..... | 600 00 | 600 00 |
| Contingent expenses, including books, stationery, and other necessary expenses..... | 400 00 | 300 00 |
| | <u>16,900 00</u> | <u>16,500 00</u> |
| Attorney's office: | | |
| Attorney..... | 4,000 00 | 4,000 00 |
| Assistant attorney..... | 2,000 00 | 2,000 00 |
| Special assistant attorney..... | 1,400 00 | 1,100 00 |
| Clerk..... | 1,400 00 | 1,000 00 |
| Messenger..... | 200 00 | 200 00 |
| Rent of office..... | 300 00 | 100 00 |
| Contingent expenses, including books, stationery, printing, and other necessary expenses..... | 400 00 | 300 00 |
| | <u>9,800 00</u> | <u>8,700 00</u> |
| Sinking fund office: | | |
| Clerk..... | 1,500 00 | 1,500 00 |
| Clerk..... | 900 00 | 900 00 |
| Contingent expenses, including books, stationery, printing, and miscellaneous expenses..... | 300 00 | 300 00 |
| | <u>2,700 00</u> | <u>2,700 00</u> |

* Under collector of taxes for 1887.

† Clerk in charge of special assessments estimated for under assessor's office for 1888.

‡ For preparing exhibit of outstanding taxes in arrears.

46 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Commissioners' estimates for 1888, as submitted to the Secretary of the Treasury—Cont'd.

| | Estimated for 1888. | Appropriated for 1887. |
|--|------------------------|---------------------------|
| Coroner's office: | | |
| Coroner..... | \$1,800 00 | \$1,800 00 |
| Contingent expenses, including jurors' fees, stationery, books, blanks, removal of diseased persons, making autopsies, and holding in- quests..... | 700 00 | 700 00 |
| Care of morgue..... | 150 00 | |
| | 2,650 00 | 2,500 00 |
| Market masters: | | |
| Two market masters, at \$1,200 each..... | *2,400 00 | *3,600 00 |
| Market master..... | *900 00 | *900 00 |
| Contingent expenses, repairs, and other necessary expenses..... | †800 00 | †823 00 |
| | 4,100 00 | 5,323 00 |
| Engineer's office: | | |
| One chief clerk..... | | |
| Three clerks, at \$1,600 each..... | 1,900 00 | 1,900 00 |
| One clerk..... | 4,800 00 | 4,800 00 |
| Four clerks, at \$1,200 each..... | 1,400 00 | 1,400 00 |
| Three clerks, at \$900 each..... | 4,800 00 | 4,800 00 |
| One computing engineer..... | 2,700 00 | 2,700 00 |
| One inspector of buildings..... | 2,400 00 | 2,400 00 |
| One assistant inspector of buildings..... | 2,400 00 | 2,400 00 |
| One assistant inspector of buildings..... | 1,200 00 | 1,200 00 |
| One inspector of asphalt and cement..... | 1,000 00 | |
| One inspector of gas and meters, who shall pay to the collector, for payment into the Treasury to the credit of the United States and the District of Columbia, in equal parts, all fees collected by him..... | 2,400 00 | 2,400 00 |
| One superintendent of streets..... | 2,000 00 | 2,000 00 |
| One superintendent of roads..... | 2,000 00 | 2,000 00 |
| One inspector of plumbing..... | 1,400 00 | 1,400 00 |
| One assistant inspector of plumbing..... | 1,800 00 | 1,800 00 |
| One superintendent of lamps..... | 1,000 00 | 1,000 00 |
| One superintendent of parking..... | 900 00 | 900 00 |
| One assistant superintendent of parking..... | 1,200 00 | 1,200 00 |
| One assistant engineer..... | 700 00 | 700 00 |
| Two assistant engineers, at \$1,500 each..... | 1,800 00 | 1,600 00 |
| One draftsman..... | 3,000 00 | 3,000 00 |
| One inspector of streets and sewers..... | 1,200 00 | 1,200 00 |
| Two inspectors of streets and sewers, at 1,200 each..... | 1,400 00 | 1,200 00 |
| One harbor-master..... | 2,400 00 | 2,400 00 |
| Four rodmen, at \$780 each..... | 1,200 00 | 1,200 00 |
| Four axemen, at \$650 each..... | 3,120 00 | 12,340 00 |
| One janitor..... | 2,600 00 | 1,950 00 |
| Two messenger clerks, at \$300 each..... | 700 00 | 700 00 |
| Three messengers, at \$480 each..... | 1,200 00 | 1,200 00 |
| Three watchmen, at \$480 each..... | 1,440 00 | 1,440 00 |
| Two laborers, at \$360 each..... | 1,440 00 | 1,440 00 |
| Purchase and repairs of instruments..... | 720 00 | 720 00 |
| Contingent expenses, including rent of property yards, books, station- ery, binding and preservation of records in the engineer's and surveyor's offices, printing, transportation, and other necessary items and services..... | 800 00 | |
| For maintaining and keeping in good order and repair laboratory and apparatus of the inspector of gas and meters..... | 5,000 00 | 5,000 00 |
| | 800 00 | 800 00 |
| | 64,820 00 | 61,190 00 |
| Overscers and inspectors temporarily required in connection with sewer, street, or road work, or the construction and repair of buildings and bridges, or any work done under contract ap- propriated for the work and for the time actually engaged thereon. | | |
| Improvements and repairs: | | |
| Repairs to concrete pavements..... | 90,000 00 | 65,000 00 |
| Materials for permit work..... | 90,000 00 | 60,000 00 |
| Continuation of survey of the District of Columbia, with reference to the extension of various avenues to the District line..... | 15,000 00 | 4,000 00 |
| Improvement of streets and avenues..... | 405,000 00 | 266,000 00 |
| Constructing, maintaining, lighting, and repairs of bridges..... | 13,500 00 | 12,660 00 |
| | 613,500 00 | 407,660 00 |
| Washington Aqueduct: | | |
| Engineering, maintenance, and general repairs..... | 20,000 00 | 20,000 00 |

* The salaries of market-masters for 1887 are included in salaries of engineer's office.

† The appropriation for contingent expenses of markets for 1887 is included in appropriation for fuel, ice, gas, &c.

‡ An increase of one rodman and one axeman estimated for.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 47

Commissioners' estimates for 1888, as submitted to the Secretary of the Treasury—Cont'd.

| | Estimated for 1888. | Appropriated for 1887. |
|---|------------------------|---------------------------|
| Streets: | | |
| Sprinkling, sweeping, and cleaning streets, avenues, and alleys | \$70,000 00 | \$58,000 00 |
| Maintenance of streets, avenues, and alleys | 35,000 00 | 25,000 00 |
| Maintenance of suburban streets and county roads | 50,000 00 | 40,000 00 |
| Opening and extending suburban streets and avenues | 60,000 00 | 30,000 00 |
| For parking commission: | | |
| For care and maintenance of trees, parks, and planting of trees, including labor and materials and miscellaneous items | 25,000 00 | 18,000 00 |
| For lighting: | | |
| For illuminating material, maintenance, purchasing, and erecting new lamp-posts, and replacing such lamp-posts as may be dam- aged or unfit for service | 100,000 00 | *100,000 00 |
| For electric light | 20,000 00 | |
| | 360,000 00 | 271,000 00 |
| Hay scales, for the purchase and repairs of | 730 00 | 500 00 |
| For the improvement and protection of the harbor and river front, the en- forcement of laws and regulations relating thereto, constructing and maintenance of wharves and buildings | 10,000 00 | |
| Pumps, for the purchase and repairs of | 3,000 00 | 2,000 00 |
| Sewers: | | |
| Cleaning and repairing sewers and basins | 35,000 00 | 25,000 00 |
| Replacing obstructed sewers | 10,000 00 | |
| Suburban sewers | 25,000 00 | |
| Main and pipe sewers | 70,000 00 | 45,000 00 |
| Schools: | | |
| Superintendent first six divisions, including use of horse and carriage. | 3,000 00 | 2,700 00 |
| Superintendent seventh and eighth divisions | | |
| Secretary to board of trustees and clerk to superintendent of first six divisions | 2,500 00 | 2,250 00 |
| Clerk to superintendent seventh and eighth divisions | 1,200 00 | 1,200 00 |
| Eight supervising principals, at \$2,000 each | 800 00 | 800 00 |
| Teachers, to be employed at an average salary not to exceed \$685. | 16,000 00 | |
| Teachers of night schools | 432,675 00 | 445,400 00 |
| Contingent expenses of night schools | 5,000 00 | 2,500 00 |
| Janitors and care of buildings and grounds: | 500 00 | |
| High school | 1,600 00 | 1,600 00 |
| Jefferson | 1,400 00 | 1,400 00 |
| Stevens | 1,200 00 | 1,100 00 |
| Franklin | 1,100 00 | 1,100 00 |
| Force, Seaton, Henry, Webster, Gales, Peabody, Wallach, Gar- nett, Sumner, Anastasi, Curtis, and Dennison, at \$900 each .. | 10,800 00 | 10,800 00 |
| Lincoln and Miner, at \$800 each | 1,600 00 | 1,600 00 |
| Twining, Abbot, John F. Cook, and Randall, at \$700 each | 2,800 00 | 2,800 00 |
| Cranch, Amidon, Morse, Brent, Bannaker, Blair, Wormley, An- thony Bowen, and three new buildings, at \$500 each | 5,500 00 | 5,000 00 |
| Addison | 700 00 | |
| Care of smaller buildings and rented rooms | 6,000 00 | 6,000 00 |
| Messenger to superintendent first six divisions | 300 00 | 300 00 |
| Messenger to superintendent seventh and eighth divisions | 200 00 | 200 00 |
| Rents | 9,000 00 | 6,000 00 |
| Repairs and improvements | 25,000 00 | 20,000 00 |
| Sanitary improvements in old buildings | 15,000 00 | |
| Contingent expenses | 25,000 00 | 20,000 00 |
| Fuel | 20,000 00 | 20,000 00 |
| Tools and machinery for industrial instruction | 5,000 00 | |
| Sites and new buildings | 100,000 00 | 75,000 00 |
| | 693,875 00 | 597,750 00 |
| Metropolitan Police: | | |
| Major and superintendent | 2,600 00 | 2,600 00 |
| Captain | 1,800 00 | 1,800 00 |
| Two inspectors, at \$1,500 each | 3,000 00 | 1,500 00 |
| Property clerk | 1,800 00 | 1,800 00 |
| Clerk | 1,500 00 | 1,500 00 |
| Clerk | 900 00 | 900 00 |
| Four surgeons, at \$480 each | 1,920 00 | 1,920 00 |
| Special service in prevention and detection of crime | 2,400 00 | 1,440 00 |
| Eight lieutenants, at \$1,320 each | 10,560 00 | \$11,880 00 |
| Thirty sergeants, at \$1,140 each | 34,200 00 | \$22,800 00 |
| One hundred and thirty privates, Class 1, at \$900 each | 117,000 00 | \$94,500 00 |

* Includes \$10,000 for electric light.

† Including salaries of supervising principals.

‡ Includes tools, &c., for industrial instruction.

§ Includes nine lieutenants.

|| Includes twenty sergeants.

¶ Includes 105 privates, Class 1.

18 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Commissioners' estimates for 1888, as submitted to the Secretary of the Treasury—Cont'd.

| | Estimated for 1888. | Appropriated for 1887. |
|--|------------------------|---------------------------|
| Metropolitan police—Continued. | | |
| One hundred and sixty privates, Class 2, at \$1,080 each | \$172,800 00 | *\$151,200 00 |
| Twenty-two station-keepers, at \$720 each | 15,840 00 | 112,240 00 |
| Ten laborers, at \$180 each | 4,800 00 | 43,360 00 |
| Messenger | 700 00 | 700 00 |
| Messenger | 500 00 | 500 00 |
| Major and superintendent, mounted | 240 00 | 240 00 |
| Captain, mounted | 240 00 | 240 00 |
| Twenty-five lieutenants, sergeants, and privates, mounted, at \$240 each | 6,000 00 | 6,000 00 |
| Seven patrol drivers | 2,520 00 | 720 00 |
| Van driver | 360 00 | 360 00 |
| Ambulance driver | 600 00 | 480 00 |
| Assistant ambulance driver | 300 00 | 300 00 |
| Rent of stations at Anacostia and police headquarters | 1,200 00 | 1,200 00 |
| Fuel | 2,000 00 | 2,000 00 |
| Repairs to stations | 2,000 00 | 2,000 00 |
| Miscellaneous and contingent expenses, including stationery, books, telegraphy, photographs, printing, binding, gas, ice, washing, meals for prisoners, furniture and repairs to same, beds and bed clothing, insignia of office, horses, police equipments and repairs to same, harness, forage, repairs to vans, ambulances, and patrol wagons, and expenses incurred in the prevention and detection of crime | 15,000 00 | 10,000 00 |
| Police signal and telephone systems in second and fifth precincts, including wagons and horses | 10,000 00 | 4,500 00 |
| Steam launch and equipments for river and fire service, including necessary apparatus for same | 4,500 00 | 11,600 00 |
| | 417,280 00 | 344,780 00 |
| Fire department: | | |
| Chief engineer | 1,800 00 | 1,800 00 |
| Fire marshal | 1,000 00 | 1,000 00 |
| Clerk | 900 00 | 900 00 |
| Two assistants to chief, at \$1,200 each | 2,400 00 | 2,400 00 |
| Nine foremen, at \$1,000 each | 9,000 00 | **7,000 00 |
| Nine assistant foremen, at \$800 each | 7,200 00 | |
| Seven engineers, at \$1,000 each | 7,000 00 | 7,000 00 |
| Two firemen, at \$40 each | 5,880 00 | 5,880 00 |
| Two tillermen, at \$40 each | 1,680 00 | 1,680 00 |
| Nine hostlers, at \$80 each | 7,560 00 | 7,560 00 |
| Fifty-one privates, at \$600 each | 40,800 00 | ††48,000 00 |
| Three watchmen, at \$600 each | 1,800 00 | 1,800 00 |
| Veterinary surgeon for all departments | 400 00 | 400 00 |
| Repairs to engine-houses | 2,500 00 | 3,000 00 |
| Repairs to apparatus and new appliances | 4,000 00 | 6,000 00 |
| Purchase of hose | 2,000 00 | 2,000 00 |
| Fuel | 2,500 00 | 2,500 00 |
| Horses | 6,000 00 | 5,500 00 |
| Forage | 8,000 00 | 7,500 00 |
| Contingent expenses, including office rent, horseshoeing, furniture, fixtures, washing, oil, medical and stable supplies, harness, blacksmithing, labor, gas, and other necessary expenses | | †‡4,500 00 |
| Purchase of new engine | | |
| | 114,420 00 | 118,420 00 |
| Telegraph and telephone service: | | |
| Superintendent | 1,600 00 | 1,600 00 |
| Electrician | 1,200 00 | 1,200 00 |
| Two telegraph operators, at \$1,000 each | 2,000 00 | 2,000 00 |
| Three telephone operators, at \$800 each | 1,800 00 | 1,800 00 |
| Three repair men, at \$720 each | 2,160 00 | §§1,440 00 |
| Inspector | 900 00 | |
| Laborer | 400 00 | \|\|\|800 00 |

* Includes 140 privates, Class 2.

† Includes 17 station-keepers.

‡ Includes 8 laborers.

§ Erection of brick stables, &c., 6th and 7th precincts.

|| Reconstructing cells in third precinct.

** Includes seven foremen.

†† Nine privates made assistant foremen without increase of pay.

‡‡ Includes new engine.

§§ Includes two repair men.

||| Includes two laborers.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 49

Commissioners' estimates for 1888, as submitted to the Secretary of the Treasury—Cont'd.

| | Estimated for 1888. | Appropriated for 1887. |
|--|---|--|
| <p>Telegraph and telephone service—Continued.</p> <p>Contingent expenses, including general supplies, repairs, new batteries and battery supplies, telephone rental, wire, extension of the telegraph and telephone service, repairs of lines, purchase of poles, insulators, brackets, pins, hardware, cross-arms, gas, fuel, ice, record-books, stationery, printing, office rent, purchase of horses and harness, washing, blacksmithing, forage, extra labor, new boxes, and other necessary expenses.</p> <p>Putting District wires underground.....</p> | <p>\$8,000 00</p> <p>10,000 00</p> <p>28,060 00</p> | <p>\$7,000 00</p> <p>15,840 00</p> |
| <p>Health office:</p> <p>Health officer</p> <p>Six sanitary inspectors, at \$1,200 each</p> <p>Two food inspectors, at \$1,200 each</p> <p>Inspector of marine products</p> <p>Chief clerk</p> <p>Clerk</p> <p>Two clerks, at \$1,200 each</p> <p>Two clerks, at \$1,000 each</p> <p>Messenger</p> <p>Pound-master</p> <p>Laborers in pound service.....</p> <p>Ambulance driver.....</p> <p>Contingent expenses, including books, stationery, fuel, rent, repairs to pound and vehicles, forage, meat for dogs, horseshoeing, maintenance of ambulance service, printing, and other necessary expenses.....</p> <p>Collection and removal of garbage.....</p> | <p>3,000 00</p> <p>7,200 00</p> <p>2,400 00</p> <p>1,200 00</p> <p>1,800 00</p> <p>1,400 00</p> <p>2,400 00</p> <p>2,000 00</p> <p>540 00</p> <p>1,200 00</p> <p>1,600 00</p> <p>480 00</p> <p>4,350 00</p> <p>15,000 00</p> <p>44,570 00</p> | <p>3,100 00</p> <p>7,200 00</p> <p>2,400 00</p> <p>1,200 00</p> <p>1,800 00</p> <p>1,400 00</p> <p>2,400 00</p> <p>1,000 00</p> <p>540 00</p> <p>1,200 00</p> <p>1,440 00</p> <p>(*)</p> <p>3,500 00</p> <p>15,000 00</p> <p>† 200 00</p> <p>42,280 00</p> |
| <p>Police court:</p> <p>Judge</p> <p>Clerk</p> <p>Deputy clerk</p> <p>Two bailiffs, at \$3 per diem each (314 days, at \$3)</p> <p>Messenger</p> <p>Doorkeeper</p> <p>United States marshal's fees.....</p> <p>Contingent expenses, including compensation of a justice of the peace acting as judge of the police court during the absence of the judge, not exceeding \$300, books, stationery, fuel, ice, gas, and other necessary expenses.....</p> <p>Witness fees.....</p> <p>Judicial expenses.....</p> <p>Necessary expenses in examination of witnesses and procuring evidence in re. claims against the District of Columbia in the Departments and defending suits against said District in the Court of Claims, as estimated by the Assistant Attorney-General at the Commissioners' request</p> | <p>3,000 00</p> <p>2,000 00</p> <p>1,000 00</p> <p>1,884 00</p> <p>900 00</p> <p>540 00</p> <p>1,400 00</p> <p>2,000 00</p> <p>2,000 00</p> <p>2,500 00</p> <p>2,850 00</p> <p>20,074 00</p> | <p>3,000 00</p> <p>2,000 00</p> <p>1,000 00</p> <p>1,878 00</p> <p>900 00</p> <p>540 00</p> <p>1,400 00</p> <p>3,000 00</p> <p>2,500 00</p> <p>16,218 00</p> |
| <p>Interest and sinking fund:</p> <p>Interest and the sinking fund on the funded debt, exclusive of water bonds.....</p> | <p>1,213,947 97</p> | <p>1,212,947 97</p> |
| <p>Miscellaneous expenses:</p> <p>Rent of District offices</p> <p>General advertising</p> <p>Books and file-holders for register of wills</p> <p>Painting checks, damages, forage, care of horses, horseshoeing, fuel, ice, gas, repair, insurance, rebinding and repairing records, and other general necessary expenses of District offices.....</p> | <p>10,000 00</p> <p>3,000 00</p> <p>300 00</p> <p>7,200 00</p> <p>20,500 00</p> | <p>3,600 00</p> <p>3,000 00</p> <p>7,500 00</p> <p>14,100 00</p> |
| <p>Maintaining Institutions of charity, reformatories, and prisons:</p> <p>Washington Asylum:</p> <p>Intendant.....</p> <p>Matron</p> <p>Visiting physician</p> <p>Resident physician</p> <p>Clerk</p> <p>Baker</p> <p>Overseer.....</p> <p>Five overseers, at \$600 each</p> <p>Engineer</p> <p>Assistant engineer.....</p> <p>Second assistant engineer</p> <p>Five watchmen, at \$365 each</p> | <p>1,200 00</p> <p>600 00</p> <p>1,080 00</p> <p>480 00</p> <p>600 00</p> <p>420 00</p> <p>800 00</p> <p>3,000 00</p> <p>600 00</p> <p>400 00</p> <p>300 00</p> <p>1,825 00</p> | <p>1,200 00</p> <p>600 00</p> <p>1,080 00</p> <p>480 00</p> <p>600 00</p> <p>420 00</p> <p>800 00</p> <p>3,000 00</p> <p>600 00</p> <p>300 00</p> <p>1,825 00</p> |

* Included in contingent expenses.

† Purchase of horse for pound service.

50 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Commissioners' estimates for 1888, as submitted to the Secretary of the Treasury—Cont'd.

| | Estimated for 1888. | Appropriated for 1887. |
|--|------------------------|---------------------------|
| Maintaining institutions of charity, reformatories, and prisons—Cont'd. | | |
| Washington Asylum—Continued. | | |
| Blacksmith..... | \$360 00 | \$240 00 |
| Ambulance driver..... | 240 00 | 120 00 |
| Hostler..... | 180 00 | 120 00 |
| Two cooks, at \$120 each..... | 240 00 | 120 00 |
| Three cooks, at \$60 each..... | 180 00 | 180 00 |
| Five nurses, at \$180 each..... | 900 00 | 180 00 |
| Two female keepers at work-house, at \$300 each..... | 600 00 | 240 00 |
| Teacher..... | 300 00 | 480 00 |
| Contingent expenses, including improvements and repairs, provisions, fuel, forage, lumber, shoes, clothing, dry goods, hardware, medicines, repair to tools, car, tracks, steam heating and cooking apparatus, painting, and other necessary expenses and services..... | 42,500 00 | 39,000 00 |
| | | *3,500 00 |
| | | †2,000 00 |
| Erection of kitchen and cooking apparatus for hospital..... | 2,750 00 | |
| | 59,555 00 | 57,385 00 |
| Reform School: | | |
| Superintendent..... | 1,500 00 | 1,500 00 |
| Assistant superintendent..... | 900 00 | 900 00 |
| Six teachers and assistant teachers..... | 4,000 00 | 3,000 00 |
| Matron of school..... | 600 00 | 600 00 |
| Three matrons of families, at \$180 each..... | 540 00 | 360 00 |
| Superintendent of chair-shop..... | 660 00 | 660 00 |
| Farmer..... | 480 00 | 480 00 |
| Engineer..... | 396 00 | 396 00 |
| Baker, cook, shoemaker, and tailor, at \$300 each..... | 1,200 00 | 1,200 00 |
| Two dining-room servants, seamstress, chambermaid, and laundress, at \$144 each..... | 720 00 | 720 00 |
| Florist..... | 240 00 | 240 00 |
| Watchmen, not to exceed five in number..... | 1,140 00 | 960 00 |
| Secretary and treasurer..... | 600 00 | 600 00 |
| Support of inmates, including groceries, flour, meats, dry goods, leather and shoes, gas, fuel, hardware, table ware, furniture, farm implements, seed, harness and repairs to same, fertilizers, books, stationery, plumbing, painting and glazing, medicines, medical attendance, stock, fencing, and other necessary expenses, including compensation not exceeding \$900 for additional labor or services, all in the discretion of the Commissioners..... | 25,000 00 | 25,000 00 |
| | | †19,500 00 |
| | 37,976 00 | 56,116 00 |
| Georgetown Almshouse..... | | |
| Transportation of paupers, &c.:..... | 1,800 00 | 1,800 00 |
| Transportation of paupers, and conveying prisoners to the work-house..... | | |
| Industrial Home School: | 4,000 00 | 4,000 00 |
| Maintenance of inmates, and salaries of superintendent and employees, the promotion of industries, and general repairs and other necessary expenses, all in the discretion of the Commissioners..... | | |
| | 10,000 00 | 10,000 00 |
| | | †3,500 00 |
| | 10,000 00 | 13,500 00 |
| Support of Insane: | | |
| Support of the indigent insane of the District of Columbia in the Government Hospital for the Insane in said District, as provided in sections forty-eight hundred and forty-four and forty-eight hundred and fifty of the Revised Statutes..... | | |
| Emergency Fund: | 75,132 00 | 75,132 00 |
| To be expended only in case of emergency, such as riot, pestilence, calamity by flood or fire, and of like character not otherwise sufficiently provided for..... | | |
| Relief of the poor..... | 5,000 00 | 5,000 00 |
| | 15,000 00 | 15,000 00 |
| Totals..... | | |
| Water Department, payable out of Water Fund: | 4,065,293 97 | 3,514,585 97 |
| One chief clerk..... | | |
| Two clerks, at \$1,400 each..... | 1,500 00 | 1,500 00 |
| One clerk..... | 2,800 00 | 2,800 00 |
| One clerk..... | 1,200 00 | 1,200 00 |
| | 900 00 | 900 00 |

* Erection and furnishing one hospital ward for twenty-five patients.
† Purchase of dummy engine for tramway.
‡ For new building.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 51

Commissioners' estimates for 1888, as submitted to the Secretary of the Treasury—Cont'd.

| | Estimated for 1888. | Appropriated for 1887. |
|---|------------------------|---------------------------|
| Water Department, payable out of Water Fund—Continued. | | |
| One messenger..... | \$600 00 | \$600 00 |
| One superintendent | 1,600 00 | 1,600 00 |
| One chief inspector | 1,000 00 | ..... |
| One inspector, at \$3 per diem | 936 00 | 939 00 |
| Four inspectors, at \$900 each | 3,600 00 | ..... |
| One draftsman | 1,800 00 | ..... |
| Contingent expenses, including books, stationery, forage, advertising, printing, transportation, and other necessary items and services | 3,000 00 | 2,400 00 |
| For engineers, firemen, fuel, and for high service pipe distribution to high and low service, including public hydrants, fire-plugs, material and labor, repairing and laying new mains and lower- ing mains | 125,000 00 | 75,000 00 |
| For two 2½-million gallon pumping-engines, two corrugated steel boil- ers and necessary connections, and other items for high serv- ice in Washington and Georgetown | 35,000 00 | ..... |
| For interest and sinking fund on water-stock bonds | 44,610 00 | 44,610 00 |
| For interest and sinking fund on account of increase of water supply, as provided in act of July 15, 1882 | 76,635 69 | 57,239 02 |
| | 300,201 69 | 188,788 02 |

A.—REPORT OF THE SECRETARY.

WASHINGTON, November 10, 1886.

THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA:

I herewith submit copies of orders of general nature made by the Commissioners during the fiscal year ended June 30, 1886; also an itemized index of the appropriations made for the support of the government of the District since the passage of the organic act of June 11, 1878, which has been prepared to facilitate comparison of the relative annual expenses of administering the government of the District since its establishment July 1, 1878.

Very respectfully,

WILLIAM TINDALL,
Secretary.

JULY 15, 1885.

Ordered, (3) That the following manual of rules and regulations for the government and discipline of the Metropolitan Police force of the District of Columbia is hereby passed, viz:

MANUAL.

PRECINCTS.

The district is divided into eight police precincts.

First precinct.—Comprises that portion of the city of Washington commencing at the Anacostia River, in the center of South Capitol street; thence running north to the Capitol, and following the building-line westerly to a point opposite the center of Pennsylvania avenue; thence directly to and up said avenue to Third street west; thence south street west; thence south to B street south, west thereon to the Potomac River, following down said river (including the same with the Long Bridge) to the junction with the said Anacostia River, and thence to the point of beginning.

Station-house, on the south side of E street south, between Four-and-a-half and Sixth streets west.

Second precinct.—Commences on the Benning's road, in the county of Washington, at the west end of the bridge; thence following the meanderings of the Anacostia River northerly to the boundary line of the District; thence westerly on said line to Rock Creek; thence down said creek to the bridge at P street; thence northerly on the boundary between said county and Washington city to Eighteenth street west; thence south to P street north, and continuing due east to the boundary at First street east, and on the boundary to the Benning's road, and thereon to the place of beginning.

Station-house, on the south side of U street, between Ninth and Tenth streets north-west.

Sub-station, near the Corners at Brightwood.

Third precinct.—Includes the city of Georgetown, Analostan Island, and all that part of the county of Washington west of Rock Creek.

Station-house, on the west side of High street, adjoining the Chesapeake and Ohio Canal.

Sub-station at Tenallytown.

Fourth precinct.—Commences at the intersection of Fifteenth street west with B street south in Washington city; thence due north, and on said Fifteenth street, to P street north; thence westerly by P street to Eighteenth street northwest; thence north to the Boundary; then on the Boundary between the county and city to Rock Creek, southerly down said creek to the Potomac River, and down said river easterly to the line of B street south, and thence on said line to the place of beginning.

Station-house, on the south side of K street north, between Twentieth and Twenty-first streets west.

Fifth precinct.—Commences at northwest corner of B street south and Seventh street west; thence north to I street north; thence west on said street to Fifteenth street west; thence on said street and south to B street south; and thence east to the place of beginning.

Station-house, 314 and 316 Twelfth street northwest.

Sixth precinct.—Commences at the corner of I street north and Seventh street west; thence east to northwest corner of Fifth and I; thence north to New York avenue, on said avenue easterly to Boundary street; westerly thereon to P street north, and on P street to Fifteenth street west; thence south to I street north, and thence on said street east to the place of beginning.

Station-house, on the west side of Fifth street, between M and N streets northwest, opposite Ridge street.

Seventh precinct.—Commences on west front of the Capitol, opposite Pennsylvania avenue; thence north and east on its building line to a point opposite North Capitol street; thence north to B street north; thence east to Maryland avenue, easterly thereon to D street north, and on said D street to Fifteenth street east; thence north to Benning's road and Boundary street, westerly on Boundary street to New York avenue, and on said avenue to Fifth street west; thence south to I street north, and west thereon to Seventh street west; thence south to B street north; thence east to Sixth street west; thence south to Missouri avenue; thence east to Third street; thence north to Pennsylvania avenue; thence east to place of beginning.

Station-house, on the east side of New Jersey avenue, between D and E streets north-east.

Eighth precinct.—Comprises all of the county of Washington east of the Anacostia River, and from Benning's bridge west to Fifteenth street east of Washington city; south thereon to D street north; thence westerly on D street, Maryland avenue, and B street north to North Capitol street; thence south to the Capitol, and on its line and eastern front to South Capitol street, and south thereon to a point intersecting the bounds of said county.

Station-house, north side of E street south, between Fifth and Sixth streets east.

Sub-station, at Uniontown, on Harrison street, between Monroe and Fillmore streets.

APPOINTMENTS.

§ 1. All appointments to office shall be made by the Board of Commissioners of the District of Columbia, and shall be signed by the president and countersigned by the secretary, and no appointment shall be valid unless so signed and countersigned. Dismissals from office shall be certified by the secretary.

§ 2. Applications for appointment shall be in writing, entirely written and signed by the party applying, and according to the rules and regulations of the Board.

QUALIFICATIONS.

§ 3. Any person appointed by the Board of Commissioners to serve on the police force must—

- 1st. Be able to read and write the English language.
- 2d. Be a citizen of the United States.
- 3d. Have been a resident of the District for two years next preceding his appointment.
- 4th. Never have been indicted and convicted of crime.
- 5th. Be at least 5 feet 8 inches in height.
- 6th. Be between 22 and 38 years of age.
- 7th. Of physical health and vigor.
- 8th. Of good moral character.
- 9th. Of unquestioned energy and courteous manners.
- 10th. Must have been honorably discharged from the Army or Navy.

TRIALS AND OFFENSES.

§ 4. There shall be a trial committee, consisting of three officers not below the rank of lieutenant, at least one of whom shall, when practicable, be next in rank to the major, appointed by the Board, to open its sessions at 9.30 a. m. of each Wednesday, and may hold other special sessions when ordered by the major, to try any charges preferred against members of the force. In minor offenses one officer, as above, may, at the discretion of the major of police, perform the duty designated herein for the trial committee. The examination of witnesses shall be had before this trial committee or officer, who shall report an abstract of the testimony, with its recommendations, through the major, to the Board for final decision. It shall be the duty of the major to ascertain that there is reasonable cause for charges preferred by members of the force against each other; and, in the absence of such reasonable cause, the accused parties shall not be cited for trial; but where complaints under oath are made by citizens against members of the force the accused shall be cited before the trial committee without further inquiry. Counsel shall be allowed only in such special cases as the Board may deem proper.

§ 5. The trial of a police officer, permanently appointed, when charges have been preferred, shall be by taking testimony, on oath, against and for the accused, and reducing the substance thereof to writing. The same may be taken by or before one or more of the Commissioners, the major, or captain of police, or the trial committee, or officer appointed for that purpose. The testimony thus reduced to writing shall be reported to the Commissioners, with the opinion thereon of the Commissioner, or Commissioners, or the major or captain of police, or the trial committee, or officer appointed for that purpose, before whom the same was taken, for the action and decision of the Board. When the investigation is had before the captain or trial committee, the record of the proceedings shall pass through the hands of the superintendent of police for his recommendation.

§ 6. Charges preferred against any member of the police force must be in writing, and sworn to or affirmed. But this shall not apply to complaints or charges by any Commissioner, the major, captain, or any lieutenant, who may charge simply in writing. All charges must be filed with the secretary or the superintendent of police. When charges are filed the superintendent shall, without delay, notify the party accused and furnish him with a copy thereof, who may send answers to the secretary or superintendent.

§ 7. The charges may be voted frivolous by a majority of the trial committee, without any examination of evidence or trial.

§ 8. The sentences of the trial committee, upon charges proved, shall be in writing, and when approved by the Commissioners shall be duly entered in minutes, copied into the records of the department, and a duplicate read to the force, and the same served upon the officer tried.

§ 9. A member of the police force may be removed from office, in addition to any penalty to which he may be subject by law, against whom any of the following charges shall be substantiated:

- (1) Intoxication, or the use of liquor while on duty.
- (2) Willful disobedience of orders or insubordination.
- (3) Showing disrespect for or to a superior or other person by violent, coarse, or insolent language or behavior.
- (4) Receiving money, or other valuable consideration, contrary to the rules and regulations, or the laws.
- (5) Willful non-compliance with any rules and regulations adopted by the Board of Commissioners.
- (6) Inefficiency, by reason of physical disability or otherwise, or neglect of duty.
- (7) Willfully maltreating or using unnecessary violence toward a prisoner or other person.
- (8) Neglect or refusal to pay a just debt, contracted during time of service; provided said debt, unless admitted, shall be evidenced by final judgment of a court of competent jurisdiction.
- (9) Conduct unbecoming an officer.

§ 10. Any officer or member of the force may be dismissed by the Commissioners whenever, in their judgment, the public interest shall demand such action.

BONDS AND SURETIES.

§ 11. The property clerk, and any other officer whose duty it is to receive property, shall give a bond, with two sureties, to the satisfaction of the Board of Commissioners, and in such sums as may be required by said Board, for the faithful discharge of their respective duties.

PROPERTY AND PROPERTY CLERK.

§ 12. The office of the property clerk shall be open every day, except Sunday, from 9 o'clock a. m. to 4 o'clock p. m.

§ 13. He shall cause to be bound all morning police reports for preservation.

§ 14. The following books shall be kept in his office:

(1) Books of record of the police, wherein shall be entered the name of every member of the police force, with the date and place of his nativity, and, if born out of the United States, the time and place he became a citizen, his age, former occupation, number of his family, and residence thereof; the date of his appointment or dismissal from office, with cause of the latter.

(2) Record of individual arrests, wherein to make record of the number of arrests made by such members of the police force, or of any special services deemed meritorious by the Commissioners.

(3) An oath book, containing the oaths of office of all officers of the police force, regular and special.

(4) Requisition book, in which shall be entered all supplies for stations and offices furnished on requisition therefor.

(5) Time book, in which shall be entered time lost, with cause thereof.

(6) Record of arrests.

(7) Trial book, or docket.

(8) Record of legal opinions.

(9) Letter-books.

§ 15. The property clerk, having given approved bonds to the Board of Commissioners, and being vested by law with notarial powers to administer oaths, to certify depositions, and being authorized to receive for legal disposition all property or money taken in charge by the members of the Metropolitan police force or the police or criminal courts, is required to duly receipt for the same whenever presented in due form.

§ 16. Whenever returns of property or money are made to the property clerk, pursuant to section 24, he shall promptly receipt therefor to the lieutenant or officer in command of the precinct or office from which such returns are made, giving credit for the amount of valuation in favor of the officer reported as having recovered the same.

In the case of animals, provided for in section 21, he shall give like receipt upon presentation to him of the receipt of the livery-keeper and descriptive return.

§ 17. He shall file and preserve all returns and compile therefrom a "property book," showing particularly all property and money received by him, the names of the persons from whom taken, the names of claimants thereof, the time of seizure, and date of receipt; and shall also enter therein the disposition of the same, whether delivered to owners, and, if so, on what evidence or whose order, or, if sold, the amount for which sold and date thereof.

§ 18. He may hear evidence of ownership of any money or property lost, abandoned, estrayed, or of that returned to him otherwise than as the proceeds of crime, and deliver the same to persons entitled thereto upon satisfactory evidence. In cases where returned as the proceeds of crime, he shall be governed by the decisions of the police or criminal courts, and upon their certificates or orders deliver the same, except as provided by law for such delivery on bonds to produce at court to or prosecute. And all such certificates, orders, and written testimony relating to such ownership shall be duly marked, filed, and preserved.

§ 19. Property (other than money or perishable) shown by sufficient evidence to be necessary for the current use of the owner, not for sale nor to be sold, may be placed in the custody of such owner, upon bonds, with surety by persons having title to real estate in the District of Columbia, being given in the sum of twice the value thereof, conditioned for the production of the same at any time within one year if required for any proceeding in court.

§ 20. In cases of large quantities of goods held by the owner for sale, when stolen and duly returned to the property clerk, he may deliver the same to such owner, except those of the full value of \$50, pursuant to the provisions of sections 413 and 422 of the Revised Statutes, upon ample security being first given to prosecute the case.

§ 21. All property or money (other than stolen, and animals) that shall have remained in the custody of the property clerk for six months without claim and proof of ownership being proffered and submitted to him, and all such when stolen, or the proceeds of crime wherein proceedings in court are not recorded, or have closed, or where detained for one year, when not duly claimed by the owner, may be sold at public auction to the highest cash bidder, after being three times advertised in public newspapers, and the highest proceeds thereof shall be paid into the policemen's fund; but animals may be advertised within five days, and, on notice of ten days, be sold at the end of twenty days from the date of their receipt.

§ 22. Any property or money in the custody of the property clerk, desired as evidence in any police or criminal court, shall be delivered to any officer who shall present an order to that effect from such court; but the same shall not be retained in said court, but returned to the property clerk for disposal according to law.

§ 23. It is the duty of every member of the Metropolitan police force of the District of Columbia, named in section 340 of the Revised Statutes, whenever he shall be authorized to seize or receive any property or money lost, found, abandoned, embezzled, or the proceeds of crime, to make immediate return thereof to the lieutenant or officer for the time being in charge of the precinct station or office to which such member is attached for duty, together with a report of all information known to him and necessary to enable the officer in command thereof to make due return to the property clerk.

§ 24. Any property or money claimed by any person to have been stolen or embezzled from themselves, or others whom such person has the right to represent, that shall be found in possession of any person who may be arrested therefor by any officer duly authorized to make such arrest, shall be so marked by said officer that he will be able to identify the same afterward. Such property or money shall be taken, with a duly-prepared return therefor for the property clerk, the accused person, and the witnesses claimant, immediately, or, at farthest, within forty-eight hours thereafter, before the police court. Thereupon, when said court shall have heard the case, such property or money, with said return, shall be forthwith delivered to the property clerk for receipt, registry, and disposition.

§ 25. All moneys, property of especial value, or animals, lost, estray, or abandoned (except animals of less value than \$40, which may be assigned by notice to the nearest poundmaster for summary disposition), when taken into the custody of any member of the police force, unless the owner thereof shall be known or present himself as claimant thereto before the same can be duly returned to the property clerk, shall be so returned. But horses, mules, and cattle taken astray, of estimated value exceeding \$40, as also such animals claimed to be stolen, will be sent to the livery-stable selected by the Board of Commissioners, the keeper of which will receipt therefor to the credit and order of the property clerk only. When thus returned, it will not be competent for any person other than the property clerk, who is charged with the custody of such property, his authorized deputy, or the courts having jurisdiction, to order or interfere with the disposition of such animals otherwise than by furnishing information.

§ 26. Except in cases of crime, fowls and small animals, such as calves, sheep, and hogs lost or abandoned and taken astray, will be considered as perishable, and, as other perishable property, may be sold at once, under the direction of the property clerk, and the net proceeds thereof duly returned to him.

But when such fowls, animals, and perishable property shall be the proceeds of crime, the same may be delivered to the owner, on ample security being first taken by the police court for his appearance to prosecute the case.

§ 27. And all property or money taken on suspicion of having been feloniously obtained, or of being the proceeds of crime, and for which there is no other claimant than the person from whom such property was taken, and all property and money taken from pawnbrokers as the proceeds of crime, or from persons supposed to be insane, intoxicated, or otherwise incapable of taking care of themselves, shall be transmitted with due form of return to the property clerk within twenty-four hours from the time so obtained.

§ 28. The lieutenant or officer for the time being in command of the respective precinct stations and office for the detection and prevention of crime shall make returns to the property clerk of all moneys and property liable to be so returned, in pursuance of law and the preceding rules. Such officer shall use the forms provided by the property clerk therefor, and furnish a description and list pertaining to each case of seizure, the name of the person from whom taken, and designate whether white or colored; or, if found, the particular place where, by what officer, the name of all known claimants; if charges are preferred, what; whether the offense is against the United States or the District of Columbia, the particulars of the disposition, or to what extent the case is disposed of, together with the hour and date of recovery, and the value, if known; or, if not, then an estimate thereof.

§ 29. On each Monday morning such officers shall make a summary of all property and money seized and received by the respective members of their commands during the preceding week up to the morning of such return, showing the dates thereof, their registry number as shown by their property book, the names of articles, or, if money, the kind and amount, from whom or whence taken, by what officer, names of claimants if known, and if disposed of, to whom delivered, on what grounds, or whose order, and the real or estimated value thereof, and return the same to the major.

GENERAL RULES.

§ 30. Each member of the police force shall devote his *whole time and attention to the business of the Department*; and although certain hours are allotted to the respective members for the ordinary performance of duty, they must at all times be prepared to act immediately, on notice that their services are required.

§ 31. The major, captain, and lieutenants are deemed to be always on duty, and all officers when on duty in their offices or stations or in the public streets shall appear in full uniform, except when the major shall deem it best for the public interests that they, or any portion of them, shall appear in citizens' dress.

§ 32. Each person permanently appointed upon the police force shall hold his office only during such time as he shall faithfully observe and execute all the rules and regulations of the Board of Commissioners, the laws of the United States, and the laws and ordinances existing within the District.

§ 33. Punctual attendance, prompt obedience to orders, and conformity to the rules and regulations will be rigidly enforced.

§ 34. Proper respect must at all times and places be shown to official superiors, and members of the department must be civil and respectful to each other on all occasions.

§ 35. Each member must be quiet, civil, and orderly in his conduct and deportment; and in the performance of his duty he must maintain decorum and attention, full command of temper, patience, and discretion. He must at all times refrain from harsh, violent, profane, or insolent language, yet at the same time act with sufficient energy and firmness to perform his duty.

§ 36. No member of the department shall, while off duty, smoke in the office or bedrooms of the station-house; nor shall he, in the station-house or elsewhere, while on duty, drink any kind of liquor or smoke, or (except in the immediate performance of his duty) enter when in uniform any place in which any kind of intoxicating drink may be sold or furnished. No liquor or any intoxicating drink shall, upon any pretext, be introduced into the station-house except advised by a physician.

§ 37. Gambling in any form by any member of the police force in a station or elsewhere is strictly forbidden.

§ 38. No member of the department shall receive or share in, for his own benefit, under any pretense whatever, any present, fee, or emolument for police services other than the regular salary and pay provided by law, except by consent of the Board of Commissioners, under the penalty of dismissal, as required by section 360 Revised Statutes.

§ 39. No member shall directly or indirectly be concerned in making any compromise or arrangement between suspected criminals and persons alleged to have suffered by their acts.

§ 40. No member shall communicate to any person information which may enable persons to escape from arrest or punishment, or enable them to dispose of or secrete any goods, or other valuable things, stolen or embezzled; nor, except by permission of the major or captain, communicate any information respecting orders he may have received, or about his contemplated movements, or the limits of his post.

Seeking notoriety through the public press by name is forbidden; and the frequent mention of particular names (as it is believed to be obtained by the solicitation of the officers themselves) will subject the officer named to investigation by the trial committee.

§ 41. No member shall leave the District, or be absent from duty, without permission from the major or captain, and leaves of absence exceeding ten days in any one year shall require the consent of the Commissioners.

§ 42. Having the common-law and statutory powers therefor, the members of the police force possess the authority of constables, except for the service of strictly *civil* process, and any warrant for search or arrest, issued by any magistrate in the police district, may be executed in any part of said district by any member of said police force, in such manner as the superintendent of police may direct.

§ 43. All persons who shall be arrested during the time that the police court is in session shall be taken immediately to such court, and all persons arrested at any other time shall be conveyed, in like manner, to the station to which the policeman making the arrest belongs. But in cases of felony, where money or property is recovered with the party arrested, time shall be taken to make the property return, as required by sections 21 and 22, under head of property clerk.

§ 44. When a person accused of having committed a felony or misdemeanor is brought to the station, the officer on duty to whom the complaint is made, is only to ascertain from the person preferring it that the act charged constitutes a crime or other offense for which a person can lawfully be detained, and that there is reasonable ground for the

complaint against the accused. He will then enter the name of the prisoner on the blotter, and cause him to be detained in the station, if the police court is not in session, until the following morning. He will also enter the name and address of the complainant and witnesses on the blotter, and take the necessary measures to insure their appearance before the police court at its next ensuing session.

§ 45. Lieutenants, or sergeants acting for them, only are authorized to receive collateral, and only in cases under the District laws.

§ 46. Every person who may be locked up at any station shall first be thoroughly searched by the officer who brings him in, and all weapons and articles of property or money found in his possession shall be taken by the station-keeper, who shall make a detailed descriptive list of the same, and if all or any part thereof be not wanted as evidence in court, such as may not be so required shall be returned to the prisoner upon his discharge, he giving receipt therefor.

§ 47. They must not render assistance in civil cases, except to prevent a breach of the peace.

§ 48. On the resignation or suspension of any member of the department, he will surrender his book of rules and regulations, shield, emblem, and all other insignia of office in his possession, to the lieutenant of the precinct in which he was assigned to duty; and in case of the decease of a member thereof, the lieutenant of the precinct shall take charge of such book, shield, or other insignia of office; and in any case the facts will be reported immediately to the major, and the insignia transmitted to the captain of police, for proper disposition.

§ 49. No officer shall maltreat or use unnecessary violence towards a prisoner or citizen.

§ 50. The members of the department are particularly enjoined to remove all beggars found asking alms in the streets. If, on inquiry, they are found to be proper subjects for charity, the police will take them to the institutions provided for the purpose to which they respectively belong for relief; vagrants will be taken before the police court, to be dealt with according to law.

§ 51. No member of the police force shall be a member of any fire or military corps, nor be allowed to go on pleasure or target excursions, except by order of the major.

§ 52. For any neglect of duty, or violation of the rules and regulations, an officer may suspend from duty any subordinate until the offense can be reported to his next superior in office, with the cause and facts on which such suspension is ordered. And for similar causes the major may be suspended by order of the Board of Commissioners.

§ 53. The right of every member of the police department to entertain political opinions not disloyal to the Government of the United States, and to express the same freely, when not engaged upon duty, shall be deemed sacred and inviolate. But no member of the police force will be permitted to belong to any political club or organization, or be a delegate or representative to or member of any political or partisan convention, whose purpose is the nomination of any candidate or candidates to any political office. He shall take no part in any such convention, nor in the choice of delegates thereto.

§ 54. No member of the police force shall be permitted to solicit or be allowed to make any contribution in money or other thing, on any pretext, to any person, committee, or association, for any political purpose whatever.

§ 55. Coolness and firmness will be expected, in all cases, of every officer; and in time of peril the police must be careful to act in concert, and to protect each other in the restoration of peace. Any shrinking from responsibility or danger at such a moment will bring upon any person implicated his discharge from the service, as unworthy of a place in it.

§ 56. The police shall not allow the sidewalks or carriageways to be obstructed, or a nuisance to be caused by the assemblage of idle and disorderly persons upon the streets, or at the doors of public halls, saloons, &c., on the highways, or permit loud and boisterous talking, to the disturbance or annoyance of persons passing, or of the neighborhood. Persons committing such offenses shall be civilly requested to disperse, and if they refuse shall be arrested.

§ 57. On the occurrence of a serious disturbance it is the first duty of the police, if possible, to restore quiet by moderate efforts or persuasion, and to disperse the crowd. If these fail, the offenders must be dispersed by force, and the principals therein arrested.

§ 58. Every patrolman, when entering on duty, must be neat in person, having his clothes and boots clean and his dress in conformity with the regulations.

§ 59. That any member of the force absent upon sick leave for a longer period than fifteen days in a given year, except by special authority from the Board of Commissioners, shall forfeit all pay during the period of such excess.

§ 60. Any member of the police force who shall be absent from duty without leave, and without producing a police surgeon's certificate, shall, in addition to the penalty of dismissal, have two days' pay deducted for each day so absent.

§ 61. Contested claims against members of the police force, to receive attention by the Board, must be accompanied by final judgment of a court of competent jurisdiction.

§ 62. It is made the duty of every officer to report any case of drunkenness or other grave infraction of these rules by any member of the force.

MAJOR.

§ 63. The major of police is the chief executive officer of the police department, but always subject to the orders and regulations of the Board of Commissioners, and as such must promulgate the same; and it is the duty of the police force to respect and obey the said major as their head and chief, subject to such orders, rules, and regulations.

§ 64. He shall have power to give such orders to the captain, lieutenants, and subordinates of the police force as he may deem proper; and it shall be their duty to render to him and his orders implicit obedience.

§ 65. It shall be his duty to promptly repair, in person, to all serious fires in the cities of Washington and Georgetown, and to all riots or tumultuous assemblages within the District, and take command of the police present, to disperse mobs, and to suppress insurrections.

§ 66. It shall be his duty at all times, day or night, to preserve the public peace, prevent crime, and arrest offenders, to protect the rights of persons and property, to guard the public health, to remove nuisances in the streets, roads, alleys, highways, and other places, to provide proper police forces at fires to protect firemen and property thereat, to protect strangers and travelers at steamboat and ship landings and railway stations, to see that the laws regarding the Sabbath, and pawnbrokers, mock auctions, gambling, intemperance, lottery dealers, vagrants, disorderly persons, and the public health are promptly enforced, and to enforce and obey all laws and ordinances of the District of Columbia which are applicable to police or health; and he shall especially see that all the rules and regulations of the Board of Commissioners are duly carried into effect, agreeably to the requirements of the laws or ordinances under which they are made.

§ 67. It shall be his duty to see that the laws of the United States and the existing ordinances of the corporation or District authorities relating to police affairs or the public health, and applicable to the several precincts, are duly enforced throughout the District.

§ 68. He shall have power to detail any portion of the police force, temporarily, to any part of the District where their services may be deemed necessary, reporting the fact and causes thereof to the Board of Commissioners.

§ 69. When charges are filed in his office against any of the members of the force he shall immediately deliver, for service, to the proper officers, such subpoenas for the attendance of witnesses to give evidence for the prosecution and defense of officers against whom charges may be preferred for trial as shall be demanded and necessary.

§ 70. He shall make quarterly and annual reports, in writing, to the Board of Commissioners, on the state of the Metropolitan police district, with such statistics and suggestions as he may deem advisable for the improvement of the police government and discipline.

§ 71. He will be held responsible for the good order of the District and general good conduct of the force therein, as the lieutenants are held responsible for the good conduct and order of their respective precincts; and it is enjoined upon him to pay frequent visits, at uncertain hours, to the various portions of the District, and thus be able efficiently to supervise the conduct of all subordinates.

§ 72. He shall keep a book, in which shall be recorded all orders promulgated by him. He shall forward to the officer in charge of the office for the detection and prevention of crime the reports of lieutenants of property missing, lost, or stolen, for entry in the registry of lost or stolen property kept by that officer.

CAPTAIN.

§ 73. It shall be the duty of the captain to see that the station-houses are clean and in good order, that the men are comfortably provided for, that the books of the station-houses are kept in conformity to the rules, and that the officers and men are faithful in the discharge of their duty.

§ 74. He shall from time to time, at least once every month, inspect the police force of each precinct, and shall examine each police station in the District, and report to the superintendent their condition as to good order, comfort, and cleanliness, and whether the records thereof are properly kept.

§ 75. The captain will report in person, daily, at the office of the major, and on the first Wednesday of every month he will submit a report in writing to the major, setting forth the condition of each station-house in the District, with such suggestions in regard

to them as will conduce to the comfort of the officers and men, and insure a thorough performance of duty.

§ 76. The captain must keep constantly in view that his duty is to see that the rules and regulations of the Board of Commissioners and orders of the major are faithfully enforced, and to report all violations thereof to the major; and while no rule is laid down by the Board of Commissioners for his precise government, it is expected that he will visit all portions of the regularly patrolled sections of the District at unexpected hours. He will visit the precincts and force on duty as often as practicable at night. He will diligently inquire into every complaint made by citizens of laxity in performance of duty by officers of police, or of grievances, and report the same to the major.

§ 77. The captain will constantly notice the general bearing and address of the officers and men, and will see that they preserve a neat and tidy appearance in their persons, uniforms, and equipments. He will from time to time inspect the dress of the privates when about to leave their station-houses for day duty, and make charges against such as are dressed in violation of the rules or are uncleanly in their appearance.

§ 78. It shall be the duty of the captain to instruct the members of the force in all the duties of patrolmen of the Metropolitan police force and the rules and regulations of the Board of Commissioners. He shall give them general and verbal instructions and explanations in regard to their powers and duties, and he shall report to the major the character and adaptation and capacity of any new member to comprehend and discharge police duties.

§ 79. He shall keep for the sole use of the police authorities records of all suspicious persons and places within the District, and report the same to the major.

§ 80. He shall keep the following books of record:

(1) Record of the members of the force by precincts, dates of assignment thereto, changes or deaths, and places of residence.

(2) Record of additional and special privates, and showing the localities for which the former are appointed for duty.

§ 81. All orders given by the captain will be submitted to the major for his approval, unless the major shall be sick or absent from the District, or otherwise disqualified from attending to his duties.

NIGHT INSPECTOR.

§ 82. A lieutenant shall be detailed as night inspector. His duty shall be to visit the station-houses and beats, at unexpected hours during the night, and see that all members of the force are vigilant in the discharge of duty, and that the rules and regulations and major's orders are strictly enforced. He will make a written report every morning to the major of the result of his inspection the night previous.

LIEUTENANTS.

§ 83. The lieutenants of police will be held strictly responsible for the preservation of the public peace in their respective precincts; and, to insure good order, they are vested with authority to post the men under their command in such parts of their precincts, and to assign them such duties, not inconsistent with the general rules and regulations, as they may deem expedient.

§ 84. They shall divide their respective precincts into posts or beats, and designate the policemen who are to patrol the same, and, as often as possible, see every man during his tour of duty.

§ 85. At suitable times they will designate relieving places within the boundaries of each post, and direct the route to be taken by patrolmen going to and coming from relieving places.

§ 86. They shall be responsible to the captain for the good order and cleanliness of their respective stations, which must never be left without the attendance of themselves, a sergeant, or other authorized person, detailed for their care, to receive prisoners and answer all proper applications.

§ 87. No one but persons having police business and officers or members of the force of the precinct must be allowed to remain in the station.

No profane or indecent language, or disorderly conduct, can be suffered within the station, and all persons thus offending must be reported to the major.

§ 88. Each lieutenant shall be held responsible for the prompt service of all notices or subpoenas sent to him from the office of the superintendent.

§ 89. They shall cause all laws and ordinances, applicable to their respective precincts, to be duly observed, and shall promptly report every case of the violation of such laws and ordinances to the major of police.

§ 90. They shall cause to be inspected from time to time all pawnbrokers' shops, second-hand dealers' shops, junk shops, and intelligence offices in their precincts, keeping a record thereof, and report thereon to the major.

§ 91. They shall diligently inquire into every complaint made by citizens of laxity in performance of duty by officers of police, or of grievances, and in every case of well-founded complaint or dereliction of duty report the same to the major in writing, giving the name of the person and the nature of the charge against him. But no such reports shall be made upon mere frivolous pretexts or without diligent investigation of the complaints made.

§ 92. Each lieutenant will note every violation of the rules by members of the force that he may witness, and it shall be his duty to prefer charges for such violations to the major, for his consideration and action.

§ 93. They shall see that every person apprehended for any criminal offense is safely kept at their respective stations, or such other place as may be provided for the custody of such offenders; and that written return thereof be made as hereafter provided. All serious cases shall be reported immediately to the major and also be embraced in such returns.

§ 94. Having just cause to suspect that any felony has been, is being, or is about to be committed within any building, ship, or vessel within their precincts, they may enter upon the same at all hours of day or night to take any necessary measures for preventing and detecting felonies, and may take into custody all persons suspected of being concerned therein, and may take charge of all property they have just cause to suspect has been stolen.

§ 95. Each lieutenant in charge of a precinct will instruct the officers in his command to report immediately after every tour of duty, all burglaries, robberies, and losses of every description, of which they shall have learned and that have occurred on their respective beats, name and residence of the party robbed or meeting with loss, and all the circumstances and information coming to their knowledge in relation thereto which may lead to the detection of the thieves or recovery of property so lost. Serious cases must be reported with the utmost promptitude possible. He will cause to be made a full record of all such reports in his office-blotted, and transcribing the same upon the proper blank forms, transmit them immediately to the major of police.

§ 96. In cases of any alarm of fire, riot, or other sudden emergency, requiring the services of the police, the lieutenant shall proceed, with all the force that can be spared from other important duties, in search of such fire or scene of emergency, and be vigilant in protecting property, preserving order, and suppressing disturbances.

§ 97. They shall be diligent in enforcing all laws relating to lotteries, lottery policies, selling of liquors, gambling of all kinds, and bawdy-houses. The superintendent will hereafter thoroughly investigate the case of any member of the force who has patrolled a given beat without reporting suspected gaming-houses, bawdy-houses, or policy-shops, whose existence thereon shall have become otherwise notorious. Such officers will be the subject of discipline, either as being in collusion with the parties unlawfully operating such houses or as being absolutely inefficient.

1. Attention is directed to the following copy of section 402 of the Revised Statutes relating to the District of Columbia:

"SEC. 402. If any member of the police force, or if any two or more householders, shall report in writing under his or their signature, to the major of police, that there are good grounds, stating the same, for believing any house, room, or premises within the police district to be kept or used for any of the following purposes, namely:

"First. As a common gaming-house, common gaming-room, or common gaming-premises, for therein playing for wagers of money at any game of chance; or,

"Second. As a bawdy-house, or as a house of prostitution, or for purposes of prostitution; or,

"Third. For lewd and obscene public amusement or entertainment; or,

"Fourth. For the deposit or sale of lottery tickets or lottery policies, it shall be lawful for the major of police to authorize any member or members of the police force to enter the same, who shall forthwith arrest all persons there found offending against law, and seize all implements of gaming, or lottery tickets or lottery policies, and convey any person so arrested before the proper court, and bring the articles so seized to the office of the Board of Police."

Printed blanks will be found at each station-house for the report above prescribed, which shall be subscribed and sworn to by the one officer, or by the two householders, making the complaint.

2. Such reports or complaints shall not be made public, unless as necessity may require in subsequent judicial proceedings, and any disclosure in this direction will be the subject of prompt investigation.

3. Upon receipt by the major of police of such report or complaint, the requisite special warrant will forthwith issue, authorizing a sufficient force of officers to enter the

premises complained of, in such manner and with whatever exercise of force may be necessary to execute the provisions of section 402 aforesaid.

4. When a bawdy-house or gaming-house is raided in accordance with the foregoing section of the statutes, the officers in charge of the raid will take down *with great care the true name and address of each party* found therein, and report the same to the major.

§ 98. Where there is a reasonable apprehension that the regular police force is insufficient for complete protection and preservation of the peace the lieutenant shall report his reasons for such apprehension to the major of police, in order that sufficient measures be taken to insure the calling out of a proper force.

§ 99. Each lieutenant shall see that every member of his force comes on duty clean and neat in his person and correctly dressed; and at the call of the roll at the commencement and termination of each tour of duty he shall inspect the men, and report all negligence in attire, want of cleanliness, or unfitness for duty from any cause.

§ 100. He must promptly obey all orders of his superiors, and set the best example of sobriety, discretion, skill, industry, obedience to orders, and neatness of person, attire, and equipments; and he shall carefully study and fully understand the rules and regulations, and see that each of his subordinates properly cares for the books containing them, and is well acquainted with their contents.

§ 101. He shall carefully read and explain to all members of his command all general orders and decisions of the Commissioners in cases of complaint against such members as they are issued, together with such parts of the rules and regulations as may be necessary, taking care that they are duly understood. He shall from time to time catechise such of the force as he may suspect to be unfamiliar with this manual. For this purpose and to acquaint himself with the general condition of his precinct, the lieutenant shall at unexpected hours visit the beats as often as possible.

§ 102. Every morning at prescribed hours he shall cause any prisoners who may have been detained at his station the night previous and all property that may have come into his possession during said time (except lost property) to be conveyed to the police court, accompanied by the policemen required as witnesses.

§ 103. He shall forward to the major of police on the morning of each day a full descriptive report of all arrests made during the preceding twenty-four hours, ending at 8 o'clock a. m., together with the time made or lost by members of the force in his command, and such notes of detail of officers and remarks on fires or other unusual circumstances as may occur within the range of his duties.

§ 104. He shall be held responsible for the care and preservation of the public property in his keeping, and on the 1st of January and every three months thereafter he shall make an accurate inventory of all furniture and other public property in his station-house, stating its general condition under the heads of "serviceable" and "unserviceable," and transmit such inventory to the superintendent.

§ 105. All requisitions for supplies for station-houses shall be made to the captain, to be approved by the superintendent, and be recorded in a book kept for that purpose; and lieutenants of police will report to the captain once in every month what supplies they have actually received during the previous month.

§ 106. Each lieutenant shall keep at his station books and records as follows:

- (a) A blotter, in which shall be entered the time they are on duty at the station, and the particular hours during which they and their sergeants, respectively, were engaged in visiting patrolmen on their beats or posts; and the entries therein shall exhibit a faithful daily account of all matters of importance to the police department, such as larcenies, burglaries, and other offenses, money and valuables taken from prisoners and lodgers, stolen property recovered, or property found, and the disposition made of the same. The entire duty of the police force in the precinct should be entered separately.

- (b) A record descriptive of arrests made.

- (c) A record of moneys and valuables recovered, and circumstances thereof.

- (d) Receipt book, in which shall be taken a receipt of every article, whether money or property, obtained from lodgers or prisoners, and returned or held.

- (e) A book into which should be daily entered a summary of all information deemed of value to be found in the diaries of the patrolmen of each precinct.

- (f) A book showing the time that any patrolman is absent from duty, and why.

- (g) A book into which shall be entered the names of all individuals and firms subject to license in the precinct.

- (h) A property book, showing all property taken, from whom, by what officer, name of claimant, if known, to whom delivered or returned, on whose order, and value thereof.

SERGEANTS.

§ 107. The sergeants shall promptly obey all orders received from their superior officers; they will set the best example of sobriety, discretion, skill, industry, and promptness to the privates under their command, and they will at all times appear neatly attired and clean in their persons and equipments.

§ 108. They shall be held responsible for the general good order and discipline of the men, and will make themselves thoroughly acquainted with the capabilities of the privates belonging to their sections or precinct rounds.

§ 109. The sergeants must carefully study and thoroughly understand the rules and regulations.

§ 110. They must carefully note *every case* of misconduct or neglect of duty of the men belonging to their section, and report the same to the officer in charge.

§ 111. They shall, while on duty, constantly patrol the rounds allotted to their forces, respectively, and enforce the performance of duty by the privates of police, occasionally passing over the entire beat with the private.

§ 112. In case of fire, burglary, riot, or any other emergency, the sergeant on duty nearest the scene of said fire, burglary, riot, &c., will immediately send information to the officer in command at the police station, and in the mean time take such action as the emergency of the case may require.

§ 113. The sergeant shall, if possible, see each man on his post or beat *without calling*; but should he not be found, THE CALL will be given in the center and on each extremity of such post; and if unable then to find him, the sergeant will extend the adjoining posts until that of the man absent is fully covered; and he will report to the lieutenant the name of the man, and cause of absence, if ascertained.

§ 114. When arranged in line for inspection, the lieutenants or sergeants will inspect each and every policeman belonging to their respective forces, and be particular in noting *that the dress is clean, and emblems and devices are clean and in the proper place*; that the baton is of sufficient length and in proper order; and that the men are properly and sufficiently attired and fit for duty, and report any delinquencies.

PRIVATES.

§ 115. The prevention of crime being the most important object in view, the private's exertions must be constantly used to accomplish that end. He must examine and make himself perfectly acquainted with every part of his post, and vigilantly watch every description of person passing his way.

§ 116. He must, to the utmost of his power, prevent the commission of assaults, breaches of the peace, and all other crimes about to be committed.

§ 117. He must, by his vigilance, render it extremely difficult for any one to commit crime on or near his post; and when, in any post offenses frequently occur, there will be good reason to suppose that there is negligence or want of ability on the part of the person in charge of said post.

§ 118. He must acquire such a knowledge of the inhabitants within his post as to enable him at once to recognize them.

§ 119. He shall carefully inspect every part of his post.

§ 120. He must at all times be enabled to furnish particular information respecting the state of his post.

§ 121. He shall frequently during the tour of patrol duty carefully examine (in the night-time) all doors and low windows of dwellings and stores to see that they are properly secured; also, areas and area gates of the several houses on his post.

§ 122. He must, if possible, fix in his mind such impressions as will enable him to recognize persons whom he frequently meets in the streets at night, and endeavor to ascertain their names and residences, and communicate all information regarding them to his sergeant.

§ 123. He shall strictly watch the conduct of all persons of known bad character, and in such manner that it will be evident to said persons that they are watched, and that certain detection must follow the attempt to commit crime; he shall note the time of the appearance of such person within his post of duty, and the circumstances thereof, and the premises that said person may enter, and report the same to the sergeant.

§ 124. He shall report to his commanding officer all policy dealers, gamblers, receivers of stolen property, or his suspicions that they are such, and all other information pertaining to his office.

§ 125. He shall each day examine the books kept at his precinct station containing statements of offenses committed, and of suspicious persons and places within the same, and take such notes therefrom as shall enable him effectively to perform his duty regarding them.

§ 126. In every case of arrest, the same shall be reported to the commanding officer on duty in the precinct in which it is made, not later than within six hours thereafter.

§ 127. When any person charges another with the commission of a crime, and insists that the person charged shall be taken into custody, the policeman shall require the accuser, if unknown to him, to accompany him as a witness, along with the accused, to the police court or police station, as the case may be; he shall then, with as little delay

as possible, return to his post, and inspect the same with great care, to see that no depredations have been committed during his absence.

§ 128. He shall carefully watch all disorderly houses, or houses of bad fame, within his post, and report his observations to his commanding officer.

§ 129. He shall take particular notice of all hacks or other vehicles at night which, under any circumstances, excite suspicion.

§ 130. He shall not leave his post till regularly relieved, unless otherwise directed by the rules and regulations.

§ 131. He shall report to his commanding officer all lamps that may not be lit at the proper time, cleaned, or are in any way out of order.

§ 132. He shall give his name and number to all persons who may inquire.

§ 133. He must not use his baton except in the most urgent cases of self-defense.

§ 134. Policemen must not walk together, or talk with each other, or with any other person, when they meet on the confines of their beats, or any other part thereof, unless it is to communicate information appertaining to the department, such communication to be as brief as possible.

§ 135. He must constantly patrol his beat, unless otherwise directed by the rules and regulations.

§ 136. Policemen detailed for special duty will daily report themselves to the lieutenant of their respective precincts, that he may be enabled to return their names to the major.

§ 137. It will be deemed a neglect of duty on the part of a policeman carelessly to lose his shield, emblem, or other insignia of office, or his equipments, or to neglect to fasten the same securely and properly to his person; or, when lost, to neglect to report the same immediately thereafter to the officer in command at the station.

§ 138. He is not to leave his beat except when having a prisoner in custody, nor shall he enter any house except in the execution of his duty.

§ 139. He will pay particular attention to all public houses and drinking places in his beat, especially those selling without license, reporting those which do not close at the hour required by law, or which sell on Sunday.

§ 140. If he observes in the street anything likely to produce danger or public inconvenience, or anything which seems to him irregular and offensive, and which cannot be at once remedied within his powers, he shall report the same immediately on his return to the station. Urgent cases shall be reported at once.

§ 141. He must acquire a full knowledge of the requirements of the rules and regulations provided for the government of the Police Department, in order to understand and properly perform his duties.

§ 142. He will be furnished with a diary or memorandum paper, in which shall be noted by him:

(1) The time he takes to pass over his post.

(2) What violation of law he sees or attends to.

(3) When and where he sees any officer of the department, stating his number.

(4) The doors of entrances of stores or houses accidentally open, and whom he notified thereof, or what protection he afforded.

Fifth. What alarms of fire he gives, and the time and his position when he hears an alarm given by others.

Sixth. All nuisances on his route, that they may be promptly removed.

Seventh. All bad and dangerous places on the streets and walks, first-securing them from danger to the public.

Eighth. All cases of wanton or unnecessary waste of the Potomac water by night or day.

Ninth. Any other offenses against the laws or ordinances, names of offenders, witnesses, &c., or any other incidents of public importance.

This diary or memorandum paper shall be delivered to the lieutenant, or to the officer in charge of the station, to be handed to said lieutenant, by each private when he comes off his post, and the same shall be daily examined by the lieutenant and such notes made therefrom for his report to the major as may be deemed advisable.

STATION-KEEPERS.

§ 143. The station-keepers shall have charge of the public records of their respective precincts, and shall perform the clerical labor thereof, and be responsible to the lieutenant for the safe keeping of prisoners and all property committed to their care.

ADDITIONAL PRIVATES.

§ 144. Additional privates, appointed on the requisition and at the expense of any person or persons applying therefor, shall be subject to the orders and obey the rules and regulations of the Board of Commissioners, and conform to its general discipline and

such special regulations as may be made, and shall wear such emblem as the Board may direct, and shall, during the term of their holding appointment, possess all the powers and privileges and be subject to all the duties required of the general or regular police force. But they may be removed at any time without cause assigned therefor, upon one month's notice being given to the person or persons who applied for their appointment.

§ 145. It shall be the duty of every additional private to report in person to the lieutenant of the precinct in which he is stationed on Monday in each week, and report, in writing, the duties performed the previous week.

SPECIAL PRIVATES.

§ 146. Special privates, appointed for a specified time, without pay, upon any emergency of riot, pestilence, invasion, insurrection, or during any day of public election, ceremony, or celebration, shall possess all the powers and privileges and shall perform all the duties of the patrolmen of the standing police force of the District, and shall wear such emblem as may be presented by the Board of Commissioners.

SPECIAL OFFICERS.

§ 147. The office charged with the special service of detecting and preventing crime shall be considered open at all hours—day and night—for the transaction of business. During the day, beginning at 9 a. m., it shall be in charge of the lieutenant regularly detailed for that purpose. During the night it shall be in charge of the lieutenant detailed at police headquarters. One special officer and one clerk shall always be present to aid the lieutenant in his duties. Each and every officer detailed for special service in the detection and prevention of crime shall attend at police headquarters and report to the officer in charge every morning at nine o'clock; and shall also submit at that hour a written report of his or their proceedings during the preceding twenty-four hours, for the information of said office and the superintendent of police.

§ 148. So far as is consistent with the interests of the service, the officers so detailed shall acquaint themselves with the practices, associations, and haunts of the criminal classes, and they shall at all times exercise the utmost vigilance in preventing crime, and all violations of law of whatever character.

§ 149. All requests for the service of any officer so detailed shall, when practicable so to do, be made to the major of police, or to the officer in charge, before any action is taken thereon, it being the intent of this rule to allow of no service (further than is absolutely necessary) without the knowledge and consent of the major or officer in charge; and if cases of emergency shall arise requiring, in the exercise of a sound discretion, active interference, without first presenting the request for service as above provided, it shall then be the duty of said officer to report the matter and his action therein to the major or officer in charge, at the earliest practicable moment, not to exceed a delay of twenty-four hours. Persons not on police business will not be allowed to remain in the office.

§ 150. When a crime has been reported the major or officer in charge shall assign the case to such officer or officers as he shall select, who shall be charged with the special management of the case, and who shall report daily, in writing, and as much oftener as may be required, all important facts and information of whatsoever character that shall be developed during the progress of the investigation, and shall withhold neither names nor other details that may be required by the major or the officer in charge. Other members of the force than those assigned to a special case may, at the discretion of the major or officer in charge, be made acquainted with all the facts in relation to the case under investigation for the purpose of enabling them to aid in the prosecution.

§ 151. Correspondence relating to the special service, of whatsoever character, will not be permitted, unless by and with the consent of and over the signature of the major or the officer in charge, by whom a proper record of such correspondence must be kept, except that an officer detailed on this service may be authorized to correspond over his own signature, in any given matter, by having the major or the officer in charge place his initials in the corner of any letter so written, and by recording the letter, as otherwise required.

§ 152. All rewards and other moneys received by any officer detailed on this service in the prosecution of his duties shall be promptly turned over to the major or officer in charge, together with an explicit report of the circumstances under which the money was received, and by whom paid.

§ 153. It shall be the duty of these officers, so far as practicable, to attend all fires in the District of Columbia, either by day or night, and assist in maintaining order and protecting persons and property, and preventing thefts and other crimes there.

§ 154. The officers so detailed, in such numbers and at such hours as the major or the officer in charge may prescribe, shall be required to remain at the headquarters of the Metropolitan police each night in readiness to respond to any duty required of them.

§ 155. The officer in charge shall each morning report to the major in writing, as the lieutenants in charge of precincts are required to do, and may report as much oftener as the necessities of the service may require.

§ 156. In all matters relating to taking possession, custody, and disposition of property and money, the officer in charge and the officers detailed on this service shall be governed by law and the same regulations which are herein provided for the guidance of lieutenants of precincts and other members of the police force, under the head of "Property and property clerk."

§ 157. In the office of this branch of the force shall be kept the following books of record:

(a) A book of registry of lost, missing, or stolen property, in which shall be entered all property reported as lost, missing, or stolen, with date, description, and value, owner's name, locality, manner in which theft was committed, name of person who first discovered the theft and time of recovery, who suspected and reason, name of sergeant and policeman covering the beat—the data for this book to be had from reports made to that office and from reports made by the lieutenants to the major, and by him transmitted to the officer in charge.

(b) General blotter and complaint book.

(c) Special blotter for complaints and cases assigned.

(d) Records of arrest, descriptive of all made.

(e) Robbery book, showing all reported robberies.

(f) Property book, showing date of receipt, claimant's name, if known, officer, how, and on whose order, disposed of.

(g) Receipt book, for receipt of property returned to those from whom taken, when not required to be turned over to the property clerk.

(h) Letterbook, for record of all letters sent.

(i) Requisition book, for meals for, or photographs of, prisoners.

(j) Rogues' album and key.

SURGEONS OF POLICE.

§ 158. There shall be four surgical districts, viz:

The first, to comprise the third and fourth police precincts.

The second, the second and sixth police precincts.

The third, the fifth and seventh police precincts.

The fourth, the first and eighth police precincts.

§ 159. There shall be one surgeon appointed in each surgical district, whose duty it shall be to visit each station-house, to inspect the same, the prison cells, and all other matters connected therewith, and make a report of the result of such inspection once in each month, or oftener in his discretion, to the major.

§ 160. The surgeons will give notice at the station-houses of those hours in the day and night when they can most likely be found at their offices for consultation by the men, and when applied to for a certificate of disability will examine the man, and grant or refuse a certificate in a form prescribed by the Board of Commissioners.

§ 161. It shall be the duty of the surgeons to render medical and surgical aid, when needed, to all members of the police force; and to prisoners and persons brought to the station-houses where the case is of a serious nature, when notified by a lieutenant or station-keeper that such services are required.

§ 162. When a member of the force needs medical aid and is able to visit the surgeon of his surgical district, he shall call at the office of the surgeon for the needed advice. When a member of the force feels unable in consequence of sickness, or is incapacitated by injury, to do duty, he shall without delay report to or send for the surgeon of the surgical district in which he resides, who shall render the needed assistance, and report to the lieutenant of the precinct in which such member does police duty whether he is "fit or unfit" for duty, and if the party applying for aid from the surgeon is a lieutenant the fact of his sickness shall be reported to the captain.

§ 163. If an officer who applies to a surgeon for his services resides within the precinct in which he does duty, he shall, as soon as he is taken sick or receives an injury, report the fact to the lieutenant in charge of the precinct.

§ 164. When an officer who resides within the limits of a precinct other than that in which he does duty shall need the services of the surgeon in whose surgical district he resides, he shall report the fact to the lieutenant in charge of the nearest station-house, and the said lieutenant shall telegraph the fact to the precinct in which the officer so reported does duty.

§ 165. When a lieutenant in charge of a precinct shall in any way become acquainted with the disability, from any cause, of an officer doing duty in his command, he shall, without delay or request, issue a card to the surgeon within whose surgical district said officer resides.

§ 166. When an officer residing out of the precinct in which he does duty shall report to the lieutenant of the nearest station-house the fact that he is sick or disabled, the same lieutenant shall issue a card to the surgeon without delay, affixing the number of his own precinct to the head of the card and the number of the officer's precinct on the body of the card.

§ 167. When a disabled officer shall have been visited by the surgeon, he shall return the lower half of the sick card to the precinct whence it was issued as soon as practicable.

§ 168. When a lieutenant shall have received the lower half of a card he may have issued to an officer not of his precinct, he shall, when he reports at headquarters on the following morning, give the card to the lieutenant in whose precinct the officer does duty.

§ 169. As soon as a sick or disabled officer has sufficiently recovered from his disability, the surgeon shall give him an order to report for duty, and also notify his lieutenant of the fact that such order has been made.

§ 170. When it is evident to the attending surgeon that the sickness or disability of an officer is not the result of exposure or received in the line of duty, he shall so state on his monthly report, and return his time as "Not allowed."

§ 171. When an officer is from any cause unable to do duty, but not necessarily confined to his house, he shall, at such times as the surgeon shall direct, report in person to the surgeon, and during his disability and convalescence shall be borne on the surgeon's monthly report.

§ 172. Members of the force will be required to receive the services of the surgeon in whose surgical district they may reside, but should the member desire the services of any other physician or surgeon he shall so state to the police surgeon or surgeons under whose care he may be or within whose surgical district he may reside, and he shall be allowed to select any physician or surgeon whom he pleases to visit him in consultation.

§ 173. The surgeons on the last day of each month will report to the major each case attended by them, giving the cause of disability, and the number of days the officer was, by reason of wounds or exposure on duty, unable to perform duty. In no case will time be allowed when lost in consequence of the use of intoxicants.

§ 174. The surgeons shall make an examination of the physical qualifications of candidates for the police force on the second Wednesday of each month, at 2.30 p. m., and at such other times as in special cases the major of police may direct.

TELEPHONE SERVICE.

§ 175. No gossiping will be permitted over the wires between station-keepers, operators, or outside parties.

§ 176. It will be the duty of station-keepers, or whoever may be in charge of the telephones as operators, to keep the switches in proper position, and as far as possible to keep them clean; and during the prevalence of severe lightning to plug out the instruments until the storm abates, and then remove the plugs at once so as to connect with the call-bells. This rule must be strictly observed under all circumstances.

§ 177. For the purpose of systematic regularity in telephone work, and for testing the lines, call-bells, and instruments, the operators at headquarters will at 5 o'clock p. m. daily call each precinct for report of cases; and when the cases are reported, the operator on duty at headquarters shall immediately report the same to the precinct or station at which the van is kept.

At 7 o'clock a. m., 12 o'clock m., and 6 o'clock p. m., each precinct shall be called from headquarters for report as to the condition of the telephones and call-bells, and where substations are connected with precinct stations by telephone the station-keepers will call such substations, at or about the same hours for similar purposes; but if any substation cannot for any cause be reached at the specified hour, it should be called regularly at such hours of each day as it can be had. Between 12 m. and 12.30 a. m. every precinct must be called from headquarters for news items for the press.

§ 178. When, for any cause, whatever, a station-keeper has not heard his station-call for an hour's time, except during the latter part of the night, he should call headquarters, so as to ascertain if the lines and instruments are in working order. The operators at headquarters should pursue the same course with each precinct, for in no other way can it be known with certainty whether or not the lines, call-bells, and telephones are in proper order.

§ 179. In the transmission of messages, the sender must take care to speak neither too loud nor too softly. Let the articulation of each word be distinct and clear, and be careful in giving names, dates, and places—in a word, talk so that you may be both heard and understood. Avoid vulgarity and profanity in all cases.

§ 180. If for any cause the transmitter should be out of order—which fact you may know if you can hear what is said to you, while at the same time you cannot be heard—use the hand telephone both for speaking and hearing; and when so using the hand telephone for speaking let the party to whom you are speaking know the fact, so that he may give you time after you have spoken to get the telephone back to your ear. Remember, also, that when talking through the hand telephone you must put it much nearer the lips than it is proper to do with the Blake transmitter.

§ 181. Station-keepers, officers in charge of the telephone stations, and all operators must promptly report to the superintendent all difficulties and troubles connected with the business.

§ 182. For the purpose of securing the greatest efficiency in telephonic communication between the several stations, substations, and headquarters, each and every station-keeper, and all officers in charge of telephone or telegraph stations, will be subject to the orders and directions of the general superintendent of the telegraph and telephone service of the District of Columbia, in regard to the management of the instruments and machinery used in telephone and telegraph business.

§ 183. Notice of all lost or found children, animals, and articles of property, and all police-news items, as sudden deaths, fires, accidents, riots, threatened disturbances, &c., that should be known to the executive of the department, or about which inquiry might be made at headquarters, shall, as soon as learned at the station of any precinct in which they occur, be immediately telephoned thereto; and in cases of lost or found children and property or of animals, both before and after return to the property clerk, unless the same be local and known at the station having information, the facts and place where they may be seen and proven shall be telephoned at once to all the stations.

DUTIES AND POWERS OF OFFICERS.

It is of the first importance that a police officer should be well acquainted with his duties and his powers, so that, when the occasion arises for him to act, he may do what is right and lawful, and neither more nor less than his duty. To this end these instructions are inserted here, setting forth in plain, simple language, as far as possible, what a police officer may and must do in every case arising in the course of his tour of duty. Before all things, an officer must take care that, in making an arrest, he uses no more violence than is absolutely necessary. The party who resists him, in ever so slight a degree, is liable to be indicted and punished under the act of Congress, and that very severely. Police officers thus have a great advantage, and, except for their own protection, or that of a citizen requiring their assistance, will in all cases endeavor to make arrests and secure their prisoners without resort to violence. Improper language is never necessary.

The law of arrests as defined by the justices of the supreme court of the District of Columbia, sitting *in banc* November 12, 1868, in an opinion delivered through Justice Olin, is as follows:

After deciding the particular question at issue in the case of *Barrett vs. Heider*, the court said:

"This is, perhaps, all that need be said in this case; but, as the question has frequently arisen in this court as to the authority of private persons and police officers to arrest without warrant, it may be useful to state what we deem the law upon the subject.

"1st As to the right of private persons to arrest. It has long been the settled law that all persons whatever who are present when a felony is committed or a dangerous wound is given, not only may apprehend the offender, but that it is their duty to do so. (1 Arch. Cr. Pl., 21; 2 Hawk. P. C., 157; 1 East. P. C., 377; *Holley vs. Mix*, 350.)

"So any person whatever, if an affray be made to the breach of peace, may, without warrant, restrain any of the offenders in order to preserve the peace, but even it would seem that this restraint cannot be continued after the peace has been restored. (See *Phillips vs. Trull*, 11; *John*, 486.)

"Neither a private person nor an officer can arrest a person charged with a crime of less degree than a felony without a warrant if not committed in their presence. An officer has no right to arrest a person without warrant guilty of a misdemeanor after the offense has been committed. (See *Proper vs. Adler*, 3 Park; 2 *Hawkins P. C.*, 121; 2 *C. and P.*, 585.)

"Both private persons and officers may arrest without warrant persons guilty of felonies. Upon this subject Chief Justice Savage, in the 3d Wend., 353, states the case as follows: 'My understanding of the law is, that if a felony has in fact been committed by the person arrested, the arrest may be justified by any one without warrant, whether there is time to obtain one or not. If an innocent person is arrested upon suspicion by a private individual, such individual is excused, if felony in fact was committed and there was reasonable ground to suspect the party arrested; but if no felony was committed by any one, and a private individual arrest without warrant, such arrest is illegal, though an officer would be justified if he had acted upon information which he had reason to rely on.'

"Justice Drury, in *Rohan vs. Savior*, 5 Cushing, 285, says the public safety and the due apprehension of criminals, charged with heinous (felonious) offenses, imperiously require that such arrest should be made without warrant by officers of the law. As to the right appertaining to private individuals to arrest without a warrant, it is a much more restricted authority, and is confined to cases of the actual guilt of the party arrested, and the arrest can only be justified by proving such guilt; but as to constables and other peace officers acting officially, the law clothes them with greater authority, and they are held to be justified if they act in making the arrest on probable and reasonable grounds for believing the party to be guilty of a felony. * * * A peace officer may, therefore, justify an arrest on a reasonable charge of felony without a warrant, although it should afterwards appear that no felony had been committed, but a private individual cannot. (See *Samuel vs. Payne*, 1 Doug. R., 359; 2 Hale P. C., 83, 84, 89.) We think the true rule of law is laid down in the case of *Rohan vs. Savior*, and the ruling of the justice at the circuit must be sustained."

The duties of the Metropolitan police of this District are twofold in character—in respect, first, to offenses against the general law of the land; second, to offenses against the local laws of the District. The following references keep this division in view, and the officer is directed, in every case, to the nature of the offense and the duty he has to perform, in the fewest words and the clearest manner possible:

OFFENSES AGAINST THE GENERAL LAW OF THE LAND.

§ 184. 1. Crimes or offenses of great magnitude.

Murder.

Manslaughter.

House-breaking.

Robbery and larceny. Larceny from the person or attempt to commit the same.

Receiving stolen goods, knowing them to have been stolen.

Assaulting any one with intent to kill, or to rob, or to commit a rape.

Setting fire to any dwelling-house or store, or any house, barn, or stable adjoining thereto.

(a) Any person, whether policeman or not, present when any of the above-enumerated offenses are committed, is bound to apprehend the offender.

(b) If a police officer sees any one commit, or has just cause to suspect that any one is about to commit, or if any one is positively charged with the commission of any of the above-named offenses, so that the officer is satisfied of the justness of the charge, he should arrest the person. If the party accused fly, he may be immediately followed wherever he goes; and if he takes refuge in a house, and his immediate arrest is necessary, the officer may break open the doors for that purpose, first taking care to give notice who he is, and his business, and to demand entry.

(c) Officers have a right to arrest and detain in custody for examination persons found in the street at night having in their possession any burglar's tools, or gun, pistol, or other weapon, or who are found in any dwelling house, out-house, stable, area, or yard, or in any way affording reasonable ground for suspicions of criminal intentions, though there is no proof of actual crime.

(d) If at any time an officer shall see any one having in his possession goods that he has reason to believe, or that he suspects, have been stolen, he should stop the person and examine him touching the goods; and if, from all the circumstances, the manner of the party, his account of himself, and the like, he is convinced that he has stolen the goods in his possession, he must take him in custody.

(e) When an affray is made in a house, within hearing of an officer, he may lawfully break open the outer door in order to suppress it.

2. Crimes of less magnitude, or misdemeanors. The principal of these, which come under police notice, are as follows:

(a) Assaults.

(b) Bigamy.

(c) Brawls tending to riots.

(d) Cruelty to animals or children, and enticing children to enter houses for purposes of prostitution.

(e) Circulating obscene literature.

(f) Embezzlement.

(g) Forgery.

(h) Gambling or keeping gaming-house.

(i) Interfering maliciously with telegraph wires.

(j) In any manner aiding in a prize-fight.

(k) Mayhem.

(l) Maliciously destroying fences.

(m) Policy writing or backing or keeping policy shops.

(n) Perjury.

(o) Riotous conduct.

(p) Resisting an officer.

(q) Sodomy.

(r) Selling lottery tickets.

(s) Selling liquor to soldiers or any one in uniform of a soldier.

(t) Trespass.

(u) Violation of civil rights law, United States postal laws, internal revenue laws, shipping regulations.

(v) Injuring or destroying the grass, trees, shrubbery, flowers, railings, chains, or fences of the public parks and places, or driving cattle, hogs, sheep, or other animals so that they may run upon or injure the parkings in any manner.

OFFENSES AGAINST THE LOCAL LAWS OF THE DISTRICT OF COLUMBIA.

§ 185. Suffering a fierce or dangerous dog, or a female dog in heat, to go at large. Dogs going unmuzzled during the period prescribed by law.

(a) Exposing unwholesome meat or other provisions in the markets. Breaking or otherwise injuring benches, stalls, or pavements in the markets; throwing offal, or water-melon or canteloupe rinds upon the pavement; selling liquor therein; obstructing the passages with a wheel-barrow or other vehicle; leaving offal about the butchers' stalls; resisting the clerk of the market in his duties.

(b) Hackney coaches, cabs, or other vehicles failing to have their numbers on the front and side of the lamps, or on each side of the driver's box, or failing to have posted conspicuously in their hacks the rate of charges allowed by law, or failing to hand to persons who engage hacks a slip containing such rate of charges; driver failing to wear license badge conspicuously; occupying other places than the *public stands*; unlawfully soliciting patronage; obstructing the crossings; drivers not on their seats, or standing near their horses with their reins in their hands, or annoying persons passing, or creating any unnecessary noise or tumult, or charging more than the prescribed rates of fare, or refusing, when disengaged, to take a passenger, or pretending to be engaged when they are really disengaged, carriages, carts and wagons not keeping to the right, carts and wagons, when following, not keeping ten feet apart, and not picking up any part of load dropped.

(c) Creating any nuisance by placing, and failing to remove on the day they are so placed, any rubbish, oyster shells, shavings, offal, or refuse of any trade, or coal, ashes, barrels, hogsheds, casks, boxes, foul water, dye-water; offal from soap and candle or other manufactories, filth, stable manure, or any offensive obstruction in any street, alley, open lot, or reservation, or in any gutter or on any pavement. Suffering firewood to remain on any pavement or street longer than forty-eight hours. Occupying with building materials more than half of carriage way; or so much of sidewalk as not to leave six clear feet thereof near the center. (See Building regulations.) Placing and suffering gas tar to remain on any lot or in any building within 150 feet of any other building, or using the same offensively. Making excavations in a street or sidewalk without permission, or without fencing same, or keeping lights about the same after night. Feeding, watering, cleaning, or washing a horse or carriage, or watering a cow sign, barrel, or other obstruction on any sidewalk further than four feet from the building line, or on any open space, or the pavements in front of and through the same, except in the act of moving or removing such merchandise, or having the same inspected, and auctioneers' goods on the day of sale, in all cases one-half of the foot-way and two-thirds of the carriageway to be left free. Erecting a horse rack or trough on any street or pavement. Setting up a shed or wooden awning in any street, or a canvas, linen, or cloth awning, with the railing on the lowest side less than eight feet from the pavement. Suffering *geese* and *goats* to run at large. Leaving snow on pavements more

than six hours' daylight after its fall, or after 9 a. m., when falling during the preceding night. Erecting or conducting any brick-kiln, pottery, slaughter-house, soap or candle manufactory, bone boiling, or other establishment creating offensive odors, on any new site, within 150 yards of any dwelling-house, without consent of the occupants of such house. Permitting domestic animals, diseased with the glanders or other infectious or contagious disease, to go at large, or placing or permitting any dead animal to remain in any street or lot, inclosed or not inclosed.

(d) Playing bandy or any game with a ball in the streets; flying kite or balloon or parachute.

(e) Disorderly assemblages in any street, avenue, alley, foot-pavement, or public space.

(f) Bathing in any of the waters in and around the city, between sunrise and sunset.

(g) Fast driving or riding, or racing horses in the streets, and driving or riding faster than a walk over any of the bridges. Riding or driving upon a footway, or through a procession.

(h) Cursing or swearing, or using obscene language in the streets or public places; loud or boisterous talking, insulting or rude observations on persons passing, or in hearing of the same.

(i) Indecency in exposing person, or writing obscene words, or putting filth upon the walls of any building.

(j) Prostitutes failing to give security for their good behavior, or enticing any one to follow them in the public streets or elsewhere.

(k) Selling liquor, including ale, porter, beer, lager beer, and cider, without license, or on Sunday, or after 12 o'clock at night (except by apothecaries for medical purposes), or to minors.

(l) Injuring or girdling trees; hitching horses to trees or tree-boxes; disturbing any religious worship; injuring or destroying building materials or other property, public or private (see law as to personal property), throwing missiles in the streets or public places; firing any guns or pistol in the streets, &c.

(m) Fires in the streets, &c.

(n) Keeping over 500 gallons coal-oil or any burning fluid in one place in the District.

(o) Vagrants, idle and disorderly persons, persons of evil fame, persons having no visible means of support, paupers, beggars, suspicious persons who can not give a good account of themselves, and drunkards about the streets, are required to give security for their good behavior, or to be confined in the workhouse.

(p) Minors being at disorderly places after 10 p. m.

(q) Violation of burial grounds.

(r) Use of commercial agents' license by another party.

(s) Undertakers, not having dealer's license, selling coffins not of their own make.

(t) Keeping a cow-yard, pen or stable within two hundred feet of a dwelling, or keeping more than two cows.

(u) Selling or having in possession game birds or animals within dates prescribed by law.

(v) Violation of fish law.

(w) Tapping or opening the water-mains laid by the United States, or wilfully and maliciously breaking, injuring, defacing, or destroying any main, or pipe, bend, branch, valve, hydrant, service-pipe, or other fixture used for the distribution of water through the streets and avenues, or its introduction into any house.

Opening any fire-plug, except in cases of actual fire, turning off the supply of water, obstructing access to the valves in any way, permitting the water to run or waste unnecessarily, or in any other way interfering with or injuring the fixtures used about the introduction and distribution of the Potomac water. Also:

(1) Carrying concealed weapons.

(2) Creating a nuisance.

(3) Fugitive from justice.

(4) Interfering with a policeman.

(5) Keeping disorderly or bawdy house.

(6) Malicious mischief.

(7) Refusing to pay hack-hire.

(8) Refusing to assist an officer.

(9) Violation of the "Act to regulate the use of the Capitol grounds."

OFFENSES IN THE COUNTY OF WASHINGTON.

The police force in the county precincts are directed to give particular attention to the general law of arrests and the instructions thereunder, as nearly all their duties are set forth therein. The ordinances of the levy court, the laws of the legislative assembly, and certain acts of Congress are the only local laws which govern in the county, and offenses against them are:

- (1) Selling liquor or keeping a bar open on Sunday.
- (2) Hunting, shooting, or fishing on Sunday.
- (3) Keeping a tavern or selling liquor without license, in quantities less than a pint.
- (4) Hawkers and peddlers selling or trading without license.
- (5) Keeping a billiard table or bowling saloon without a license.
- (6) Acting as an auctioneer without license.

All laws imposing licenses are in force in county.

REQUIRING ANNUAL LICENSES.

Due July 1.—Hacks, cabs, carriages, omnibuses, and all other vehicles for the transportation of passengers for hire, street-cars, and tax on dogs due.

Due November 1.—Apothecaries, auctioneers, book agents, brokers, banks, bankers, bar-rooms, butchers (in markets) buying and selling meat, brewers, bill-posters, billiard, bagatelle, and jenny-lind tables, bowling-alleys, and shuffle-boards, cattle-brokers, commission merchants, claim agents, contractors, dealers in liquors (wholesale), dealers in ice, dealers in junk, dealers in second-hand clothing, dealers in old barrels, distillers, hotel proprietors, intelligence offices, insurance companies (fire and life), insurance agents, livery stables, manufacturers of illuminating gas, pawnbrokers, pistol galleries, patent-agents, restaurants and eating-houses, real estate agents, rectifiers, theaters, variety theatres.

Due April 1.—Commercial agents, peddlers, produce dealers at large, produce dealers in markets.

Miscellaneous licenses—good for the time specified thereon.—Balls, beer or pleasure-garden entertainments, concerts, circuses, exhibitions of various kinds, horse races or tournaments, *provided an admission fee is charged.*

RATES OF FARE FOR HACKS, CABS, AND OTHER VEHICLES.

§ 186. [Extract from the act of the legislative assembly, D. C., August 23, 1871:]

"SEC. 13. *And be it further enacted,* That the printed form of the ticket which shall be furnished to each driver, as aforesaid, by the register, at the actual cost of production, shall be of paper, and measure five inches long and two inches wide, and shall embrace the words following, to wit, and such additional information as may be deemed necessary:

Rates of fare established by law for hacks, cabs, or other vehicles for hire, in the District of Columbia.

[Number of license in distinct figures. Keep this ticket in case of need.]

| | Between the hours of 5 a. m. and 12.30 a. m.* | Between the hours of 12.30 a. m. and 5 a. m.* |
|---|--|--|
| For one or two passengers in a one-horse vehicle. | { By the hour..... \$0 75 By the trip..... 75 | By the hour..... \$1 12 By the trip..... 1 12 |
| For one or two passengers, four-seated vehicle, drawn by two horses, within the limits of the city of Washington. | { By the hour..... 1 50 By the trip, exceeding 1 mile..... 1 00 | By the hour..... 2 25 By the trip, exceeding 1 mile..... 1 50 |
| For one or two passengers, four-seated vehicle, drawn by two horses, from Washington to or from Georgetown. | { By the hour..... 1 50 By the trip, exceeding 1 mile..... 2 00 | By the hour..... 2 25 By the trip, exceeding 1 mile..... 3 00 |
| (And for each additional passenger, 50 cents.) | | |

*One mile or less, one-half these rates.

"In all cases where a vehicle is not engaged by the hour, it shall be considered as being engaged by the trip. It is expressly understood that in all cases the fare for two passengers, together with the articles herein provided for to be carried by each, shall be the same as for one only.

"The fare to any point outside of Washington and Georgetown, and within the District of Columbia, shall, in all cases, be charged by the hour, or part of an hour, and at the same rate as within these cities, and if the vehicle is dismissed outside of the cities of Washington and Georgetown, a fare of fifty cents additional may be charged.

"Each passenger is entitled to have conveyed, without extra charge, one trunk, or other traveling box or bag: *Providing*, There be not more than two trunks or other traveling-boxes to be conveyed at one time for the person or persons hiring the conveyance. If there be more than two trunks, the driver shall be entitled to twenty-five cents for each additional one. Each passenger shall also be entitled to have conveyed such other small packages as can be conveniently carried within the vehicle.

"The driver shall load and unload all baggage without additional charge.

"If a passenger claims to be overcharged by a driver, the driver is compelled to drive the passenger to the nearest police station, where the officer in charge will immediately decide the case. In case where a passenger is about to leave by railroad, stage, or steamboat, the officer on duty at such place shall promptly settle the claim in accordance with law.

"On the obverse side of this ticket the following shall appear, to wit, and such additional matters as may hereafter be deemed necessary for information:

"The driver must present this to every passenger before or upon entering his vehicle:

Remarks made by _____.
Residing at _____, 18—.

IF BY THE HOUR—

When engaged, —h, —m, —M.
When discharged, h—, m—, —M.
One or two horse vehicle, — horse—.

IF BY THE TRIP—

Where from, _____. Where to, _____.
One or two horse vehicle, — horse.
Number of extra pieces.

Trunks -----
Other parcels -----

Offered dollars -----
Demanded dollars ----

HACK-STANDS.

§ 187. (a) The following locations are designated as stands for one or two horse vehicles, but not more than one-half of the number of vehicles authorized at each stand shall be of the kind drawn by two horses:

On the west side of Fifteenth street northwest, immediately south of the entrance to the Executive Grounds, six vehicles.

On the west side of Fifteenth street, south of the prolongation of the south building line of North E street, an indefinite number of vehicles, subject to the special orders of the chief of police.

On the west side of Fifteenth-and-one-half street northwest, immediately north of Pennsylvania avenue, six vehicles.

On the east side of Fourteenth street northwest, south of Pennsylvania avenue, ten vehicles.

On the part of the space at the intersection of C and Seventh streets and Louisiana avenue northwest, parallel with and contiguous to the eastern line of said Seventh street, in such number and order as the chief of police may prescribe.

On the east side of New Jersey avenue, near the Baltimore and Ohio Railroad Company's depot, ten or more vehicles, at the discretion of the chief of police.

On the north side of New York avenue, 15 feet wide and extending 100 feet eastwardly from the east side of Seventh street west.

On the south side of D street, from Eleventh to Twelfth streets northwest, four vehicles.

On Sixth street, near the Baltimore and Potomac Railroad Company's depot, such number and in such order as the chief of police may prescribe.

(b) The following locations are designated as stands for one-horse vehicles:

On the south side of Pennsylvania avenue, between Thirteenth and Thirteenth-and-one-half streets northwest, two vehicles.

On the north side of Louisiana avenue, east of Ninth street northwest, three vehicles.

On the north side of Louisiana avenue, between Fifth and Sixth streets northwest, two vehicles.

On the south side of D street northwest, west of the Baltimore and Potomac Railroad Company's depot, a number of vehicles at the discretion of the chief of police.

On I street northwest, at southwest corner of McPherson square, four vehicles.

On east side of Seventeenth street northwest, immediately north of Pennsylvania avenue, four vehicles.

At Thomas Circle, three vehicles on the south side, and two vehicles on the north side.

At Iowa Circle, two vehicles on the south side, and two vehicles on the north side.

On the north side of M street northwest, between Connecticut avenue and Eighteenth street, four vehicles.

On the northeast side of Dupont Circle and P street, four vehicles.

On the southeast part of Washington Circle, two vehicles.

On the east side of First street west, near the Peace Monument, three vehicles.

On the east and west sides of Scott Circle, next to the street curb, each one vehicle.

(c) That all hack stands shall be kept clean and in proper order by the parties occupying the same.

The exact limit of each stand will be established under the direction of the chief of police.

The solicitation of fares upon the public streets and grounds by any licensed driver of a vehicle for the transportation of passengers for hire is positively prohibited.

All infractions of these regulations will subject the person so offending to the penalties prescribed by law, and all regulations and orders locating places where hacks shall stand, inconsistent herewith, are hereby repealed.

§ 188. POLICE-PATROL STATIONS.

| FIFTH PRECINCT. | | SEVENTH PRECINCT. | |
|-----------------|--|-------------------|--|
| Station. | Location. | Station. | Location. |
| 323 | Thirteenth and B streets N. W. | 232 | Four-and-a-half and Pennsylvania avenue. |
| 324 | Thirteenth-and-one-half and D sts. N. W. | 234 | First and Pennsylvania avenue. |
| 331 | Fifteenth and Pennsylvania avenue. | 241 | First and D streets N. E. |
| 332 | Fourteenth and F streets. | 242 | Fourth and C streets N. E. |
| 333 | Fifteenth and New York avenue. | 251 | Ninth and Maryland avenue N. E. |
| 342 | Fourteenth and H streets. | 252 | Thirteenth and H streets N. E. |
| 414 | Thirteenth and Pennsylvania avenue. | 431 | Eighth and H streets N. E. |
| 415 | Eleventh and E streets. | 412 | Fifth and K streets N. E. |
| 421 | Twelfth and F streets. | 522 | Second and H streets N. E. |
| 422 | Tenth and H streets. | 341 | First and K streets N. E. |
| 423 | Ninth and G streets. | 312 | North Capitol and H streets. |
| 432 | Seventh and E streets. | 413 | First and I streets N. W. |
| 512 | Ninth and E streets. | 315 | Fourth and L streets N. W. |
| 513 | Seventh and Pennsylvania avenue. | 321 | Fourth and H streets N. W. |
| 521 | Ninth and Louisiana avenue. | 322 | Sixth and G streets N. W. |

THE POLICE TELEPHONE AND SIGNAL TELEGRAPH.

INSTRUCTIONS TO POLICEMEN.

Always use the telephone, and explain your want if you have time and the case is not urgent.

If you want assistance quickly and can not stop to use the telephone, pull the hook at the side of the iron box *all the way down once and let go*. A tap on the little bell inside the box signifies that your call has been received.

If you require more help than is usually sent, wait after the first pull until the hook has moved back to its normal position, and then pull again.

If you desire to use the telephone, be *sure* and move the pointer on the signal-box one point, which is as far as it will go, to the left, *before* pulling the hook.

If for any reason the transmitter should be out of order, use the hand telephone, both for talking and hearing.

Be careful and put the telephone cords back out of the way *before* closing the door of the inside box, and be sure this door and the door of the station are locked *before* leaving.

Return all keys found in the locks to those known to be rightful holders, or to the officer in charge of the station.

If for any cause you require assistance and cannot call it yourself, hand your keys to some one and request them to call for you, informing them where to find the hook, and to pull all the way down once and let go.

INSTRUCTIONS TO KEY-HOLDERS.

Be careful and keep your key securely, but where it may be quickly reached in case of necessity. Never intrust it to an irresponsible party, but use it yourself if the occasion warrants.

If your key should be lost, immediately notify your precinct station.

Trap-locks are in use on the street stations, and the keys can not be withdrawn when once turned in the lock except by the use of a release key, held only by members of the force. If properly used your key will be released and returned to you by the policeman answering your call.

TO CALL THE POLICE.

Go to the nearest street station, open the door, and find the hook protruding from the iron box at the right-hand upper corner. Pull this all the way down *once* and let go. A little bell inside the box will quickly respond with one blow, signifying that your call is received. Should you fail to hear this, after waiting one minute, pull the hook again.

§ 189. FIRE-ALARM SIGNAL STATIONS.

- 12 Corner Second and D streets N. W.
- 13 Corner Third and B streets N. W.
- 14 Corner Third and G streets N. W.
- 15 Massachusetts avenue, between Fourth and Fifth streets (No. 6 E. Co.), N. W.
- 16 Sixth and B streets (B. & P. depot) N. W.
- 17 Four-and-a-half street, between C street and Pennsylvania avenue, N. W.
- 18 Pennsylvania avenue, between Third and Four-and-a-half streets (Globe office), N. W.
- 19 *Police station*, First and F streets N. W.
- 121 *Headquarters*, Fifth and D streets N. W.
- 123 Sixth and G streets N. W.
- 124 Seventh street and Louisiana avenue N. W.
- 125 Seventh and E streets N. W.
- 126 General Post-Office Department N. W.
- 127 Seventh and I streets N. W.
- 129 Ninth and D streets N. W.
- 131 Ninth and F streets N. W.
- 132 Ninth and H streets N. W.
- 134 Tenth street, between E and F streets, N. W.
- 135 Eleventh and G streets N. W.
- 136 Twelfth and L streets N. W.
- 141 Twelfth street and Pennsylvania avenue (Pension Office) N. W.
- 142 Thirteenth and F streets N. W.
- 143 Thirteenth and I streets N. W.
- 145 Fourteenth street, between Pennsylvania avenue and F street, N. W.
- 146 Fifteenth and G streets N. W.
- 147 Fifteenth and I streets N. W.
- 148 Fourteenth street and Vermont avenue N. W.
- 149 L street, between Fifteenth and Sixteenth streets, N. W.
- 151 D street, between Twelfth and Thirteenth streets, N. W.
- 152 Tenth and C streets N. W.
- 153 Thirteenth and B streets N. W.
- 154 Fifteenth and E streets N. W.
- 21 New Jersey avenue and K street N. W.
- 23 Fourth street and New York avenue N. W.
- 24 Fourth and O streets N. W.
- 25 Sixth street and New York avenue N. W.
- 26 *Police station*, Fifth and N streets, N. W.
- 27 Fifth street and Rhode Island avenue.
- 212 Seventh and M streets N. W.
- 213 Seventh and R streets N. W.
- 214 Seventh and Boundary streets N. W.
- 215 Ninth and L streets N. W.

- 216 Tenth and N streets N. W.
- 217 Ninth and P streets N. W.
- 218 *Police station*, U, between Ninth and Tenth streets, N. W.
- 219 Tenth and R streets (No. 7 Engine) N. W.
- 236 Eleventh and O streets N. W.
- 237 Twelfth and Q streets N. W.
- 238 Twelfth and S streets N. W.
- 239 Twelfth and V streets N. W.
- 241 Fourteenth street and Rhode Island avenue N. W.
- 243 Fourteenth and Corcoran streets N. W.
- 245 Fourteenth and U streets N. W.
- 246 Fourteenth and Boundary streets N. W.
- 247 Sixteenth and P streets N. W.
- 249 Fifteenth and S streets N. W.
- 251 R street, between Sixteenth and Seventeenth streets, N. W.
- 253 Sixteenth and T streets N. W.
- 254 Nineteenth and R streets N. W.
- 256 Columbia Road and Nineteenth street, extended N. W.
- 31 Seventeenth street, between F and G streets, N. W.
- 32 G street, between Seventeenth and Eighteenth streets, N. W.
- 34 K street, between Sixteenth and Seventeenth streets (No. 1 Eng.), N. W.
- 35 Sixteenth and M streets N. W.
- 36 Nineteenth and F streets N. W.
- 37 Nineteenth street and Pennsylvania avenue N. W.
- 38 *Police station*, K street, between Twentieth and Twenty-first streets.
- 39 Nineteenth and L streets N. W.
- 312 Twenty-second and E streets N. W.
- 314 Twenty-first and H streets N. W.
- 315 New Hampshire avenue and M street (Truck B) N. W.
- 318 N street, between Seventeenth and Eighteenth streets, N. W.
- 319 Twentieth and P streets N. W.
- 321 Twenty-fourth and G streets N. W.
- 324 Pennsylvania avenue, between Twenty-third and Twenty-fourth streets, N. W.
- 325 *U. S. Naval Observatory*.
- 327 Twenty-sixth and I streets N. W.
- 328 Twenty-fifth and M streets N. W.
- 41 Maryland avenue and Four-and-a-half streets S. W.
- 42 Virginia avenue, between Four-and-a-half and Sixth streets, S. W.
- 43 Four-and-a-half and H streets S. W.
- 45 Four-and-a-half and N streets S. W.
- 46 United States arsenal guard-house S. W.
- 47 *Police station*, E street, between Four-and-a-half and Sixth streets, S. W.
- 412 Seventh street and Maryland avenue S. W.
- 413 Seventh and F streets S. W.
- 415 Seventh and K streets S. W.
- 416 Twelfth and Walter streets S. W.
- 417 Fourteenth and C streets S. W.
- 421 National Museum S. W.
- 423 Eleventh street and Maryland avenue S. W.
- 425 C street, between Second and Third streets, S. W.
- 426 First and N streets S. W.
- 427 Sixth street, near M street, S. W.
- 431 Thirteenth and C streets S. W.
- 432 Fourteenth and B streets S. W.
- 435 Ninth and H streets S. W.
- 436 Tenth street and Virginia avenue S. W.
- 51 New Jersey avenue (U. S. Coast Survey) S. E.
- 52 East Capitol and Second streets S. E.
- 53 Second and C streets S. E.
- 54 Third and L streets S. E.
- 56 *Police station*, (Eighth precinct) S. E.
- 512 Seventh and East Capitol streets S. E.
- 513 Seventh street and Pennsylvania avenue S. E.
- 514 U. S. Navy Yard gate, Eighth and M streets S. E.
- 516 Third and B streets S. E.
- 517 Third and D streets S. E.
- 521 Eleventh and B streets S. E.

- 523 Eleventh and I streets S. E.
- 524 Thirteenth and E streets S. E.
- 526 Eleventh and M streets S. E.
- 527 *Alms-house.*
- 528 *Insane Asylum.*
- 61 Delaware avenue and C street (No. 3 Engine) N. E.
- 62 North Capitol and H streets N. E.
- 63 Delaware avenue and K street N. E.
- 64 Deaf and Dumb Institute N. E.
- 65 North Capitol, between B and C streets (Truck A), N. E.
- 67 H street, between Second and Third streets, N. E.
- 612 Fourth and C streets N. E.
- 613 Sixth and H streets N. E.
- 621 Tenth and H streets N. E.
- 623 North Capitol and F streets N. E.
- 625 North Capitol and P streets N. E.
- 627 Eighth street and Maryland avenue N. E.
- 631 Sixth and A streets N. E.
- 632 Ninth and A streets N. E.
- 71 Thirtieth and M streets, Georgetown.
- 72 Twenty-eighth and O streets, Georgetown.
- 73 Thirty-second and Q streets, Georgetown.
- 76 *Industrial Home School.*
- 712 Thirty-fourth and O streets, Georgetown.
- 713 Frederick and Seventh streets, Georgetown.
- 714 Thirty-first and O streets, Georgetown.
- 721 M street, near High (No. 5 engine), Georgetown.
- 731 Thirtieth and K streets, Georgetown.
- 732 Potomac and Water streets, Georgetown.
- 735 P-street car stables.

NOTE.—Stations in italics are telephone stations.

DIRECTIONS TO KEY-HOLDERS.

Never put your key in the lock unless you have occasion to pull the box for a fire, as you cannot remove the key after turning it in the lock.

Never give an alarm unless you are sure there is a fire.

Burning chimneys are not, as a rule, sufficient cause for sounding an alarm.

When you have pulled a box do not attempt to remove the key—you can not do it. Some one connected with the fire department will release your key and restore it to you.

A penalty of from \$10 to \$50 is imposed by law for tampering with or injuring the fire-alarm telegraph, and for giving false alarms of fire.

§ 199. UNIFORMS.

WINTER UNIFORM.

FOR MAJOR AND SUPERINTENDENT.

A blue frock overcoat, of beaver or kersey, double-breasted, rolling collar (collar to be covered with black silk velvet), two rows large police buttons on breast, nine in each row; six large buttons behind, one on each hip, one in center of and one at bottom of each fly, the fly to extend to the bottom of skirt; three small police buttons on each cuff. The skirts of the coat to extend four inches below the knee; three pockets, two behind in fly, one in left breast (outside); the pockets to be of strong material; the coat to be lined throughout with Italian cloth of good quality, and well wadded.

For pantaloons.—To be made of blue cassimere, Metropolitan doeskin.

For vest.—To be made of dark blue F. & H. cloth, single-breasted, nine police buttons on breast.

FOR CAPTAIN AND INSPECTOR.

The same in all respects for coat and pantaloons as for major and superintendent.

Vest.—The same as for major and superintendent.

FOR LIEUTENANT.

Two rows of large police buttons on breast, eight in each row; collar to be covered with same material as coat. In all other respects coat and pants made same as for captain and inspector.

Vest.—Same as for captain and inspector.

FOR SERGEANTS.

Leave off the two buttons in center of fly behind on coat. In all other respects, coat and pants made same as for lieutenant.

FOR PRIVATES.

Two rows large police buttons on breast, six in each row; two small police buttons on each cuff. Pantaloon made plain. In all other respects made same as sergeant's coat and pants. All pantaloons are to have a pocket behind on right hip, four and a half inches wide by six and a half deep, and lined with buck or chamois skin.

ADDITIONAL PRIVATES.

The same as for privates of the regular force, except the button, which shall be same as sample at headquarters.

HAT.

To be the same as the hat now worn by the members of this force. The hat to be worn by the entire force.

HAT ORNAMENTS.

For major and superintendent.—A double gold cord, with acorns on end.

For captain and inspector.—Same as for major and superintendent.

For lieutenant.—A three-eighth inch black and gold cord, with acorn on end.

For sergeant.—A one-fourth inch black and gold cord, with acorn on end, a gold embroidered wreath, with "Sergeant" above, and numbered from one to maximum below, in silver.

For privates.—A nickle-plated wreath, with numbers attached, as "per sample at headquarters," with cord same as for sergeant.

BELTS.

The same as now worn by major and superintendent, captain and inspector. Lieutenants, sergeants, and privates, as per sample at headquarters.

SHOULDER ORNAMENTS.

For major and superintendent.—A wreath embroidered in gold, with major's leaf in center of, crosswise.

For captain and inspector.—Same as for major and superintendent, excepting the leaf. Instead of which there shall be two bars embroidered in silver in center of, crosswise.

For lieutenant.—Same as for captain and inspector, excepting there shall be but one bar in center of wreath.

SHIELDS.

For major and superintendent, captain and inspector, and lieutenants.—The same as now worn.

For sergeants.—The same as now worn, with "Sergeant" engraved above, and numbered from one to maximum below.

For privates.—The same as those now in use.

BATON.

For day duty, to be made of rosewood, to be 22 inches long, and 1 inch and a quarter (scant) in diameter.

For night duty, to be made of locust or hickory; in all other respects made same as day baton.

Belts, batons, shields, wreaths, and numbers will be furnished by the department, and are to be returned to the same after death, resignation, or dismissal, through the lieutenant of the precinct where the party or parties were doing duty.

SUMMER UNIFORM.

The coat and pantaloons are to be made of navy blue (indigo dyed) flannel or cloth of good quality, and in the same style as the winter uniform, with the following exceptions, viz:

Leave out the wadding in the skirts.

Skirt to extend to within two inches of the knee.

Leave out the outside pocket on left breast in all summer coats, and put in, in lieu thereof, one pocket in left breast, inside.

The coats for privates are to be single-breasted (instead of double) with nine large police buttons on the breast, to button up to the neck, and to have a rolling collar.

SUMMER FATIGUE UNIFORM COAT.

For major and superintendent, captain and inspector, and lieutenants.—A blue flannel sack-coat, single breasted; rolling collar, covered with black velvet; breast to roll three inches, with three holes and buttons below; three small buttons on each cuff; two pockets, one outside on left breast, with a welt, and one inside of right breast, one flap on each skirt outside, seven inches long and two and three-fourths wide (but no pocket). Back to be cut on the double, and to extend half way between hip-joint and knee. To be stitched back of edge, and lined all through with Italian cloth.

For sergeants.—Same as for lieutenants, except that the collar will be of the same material as the coat.

For privates.—Same as for sergeant, except that there shall be but two buttons on each cuff.

NOTE.—The vest for summer wear for all members of the force will be made of white linen duck, and cut in the same style as the winter vest.

AUGUST 3, 1885.

Ordered, That the requisite proceedings having been taken by all the owners of square numbered 645 in conformity with the act of Congress entitled "An act to authorize the changing of alley-ways in the city of Washington," approved July 6, 1882, so much of the old alley-way in said square as the petitioners ask to have closed is hereby closed as prayed for and as is indicated for that purpose on the plan hereto attached (L. R. No. 121, 531 C. O.), and the new alley-ways proposed by the petitioners to be substituted therefor, as indicated on said plan, are hereby declared open as public alleys.

AUGUST 15, 1885.

Ordered, That the requisite proceedings having been taken by the owner of square numbered 271, in conformity with the act of Congress entitled "An act to authorize the changing of alley-ways in the city of Washington," approved July 6, 1882, so much of the old alley-ways in said square as the petitioner asks to have closed is hereby closed as prayed for and as is indicated for that purpose on the plan hereto attached (L. R. 122, 287 C. O.) and the new alley-ways proposed by the petitioner to be substituted therefor as indicated on the plan hereto attached, marked B, are hereby declared open as public alleys.

SEPTEMBER 9, 1885.

Ordered, That as the order of July 20, 1874, requiring all official bonds to be filed with the Treasurer of the District of Columbia has become inoperative by reason of the act of Congress of March 3, 1881, which abolished the said office, all such bonds shall be filed with the Assessor of the District of Columbia.

OCTOBER 3, 1885.

Ordered, That the order of August the 30, 1879, consolidating the offices of the Commissioner and the Intendant of the Washington Asylum is hereby amended by abolishing the said office of Commissioner.

OCTOBER 5, 1885.

Ordered, That the requisite proceedings having been taken by all the owners of square numbered 672, in conformity with the act of Congress entitled "An act to authorize the changing of alley-ways in the city of Washington," approved July 6, 1882, so much of the old alley-ways in said square as the petitioners ask to have closed is hereby closed as prayed for, and as is indicated for that purpose on the plan hereto attached (L. R. 122, 914, C. O.), and the new alley-ways proposed by the petitioners to be substituted therefor as indicated on said plan are hereby declared open as public alleys.

OCTOBER 16, 1885.

Ordered, That the public-school building located on the corner of Sixth and Trumbull streets, in the county, is hereby named the "Mott school" in honor of the late Lucretia Mott.

(2) That the time for the completion of contract No. 610 with Patrick Maloney for laying certain street pavements is hereby extended to December 1, 1885.

OCTOBER 26, 1885.

Ordered, That the requisite proceedings having been taken by all the owners of square numbered 546, in conformity to the act of Congress entitled "An act to authorize the changing of alley-ways in the city of Washington," approved, July 6, 1882, so much of the old alley-ways in said square as the petitioners ask to have closed is hereby closed as prayed for and as is indicated for that purpose on the plan hereto attached (L. R. 123, 946 C. O.), and the new alley-ways proposed by the petitioners to be substituted therefor as indicated on said plan are hereby declared open as public alleys.

OCTOBER 26, 1885.

Ordered, That pursuant to the provisions of the act of Congress providing a permanent form of government for the District of Columbia, approved June 11, 1878, and an act making appropriations to provide for the expenses of the government of the District of Columbia for the fiscal year ending June 30, 1886, and for other purposes," approved February 25, 1885, a tax be and the same is hereby levied, of \$1.50 on every \$100 of real estate not exempted by law, except upon real property held exclusively for agricultural purposes without the limits of the cities of Washington and Georgetown, and so designated by the assessor in his annual return, the rate on which shall be \$1 on every \$100, and upon all personal property in the District of Columbia not taxable elsewhere \$1.50 on every \$100, according to the cash valuation thereof.

The first half of said tax shall be due and payable on the 1st day of November, 1885, and the second half on the 1st day of May, 1886.

(2) That the time for the completion of contract No. 617 with Columbus Thomas, for erecting a workhouse for female prisoners, is hereby extended to December 1, 1885.

DECEMBER 5, 1885.

Ordered, That all applications for licenses under paragraph 21 of section 21 of the act imposing licenses on trades, business, and professions carried on in the District of Columbia, and providing for the enforcement and collection of penalties thereunder, shall be made in writing and addressed to the Assessor of the District of Columbia, and shall contain the name of the applicant, and shall designate particularly the place where it is proposed to carry on the business in question. All such applications shall be by the Assessor referred to the liquor license board for examination under the regulations prescribed by the board of commissioners in such cases.

(2) That in pursuance of the act of Congress for the relief of Eliza W. Patterson, which became law June 18, 1884, the water-main taxes standing against the following-named property be canceled on the books of the water department:

| Square. | Lot. | Square. | Lot. |
|-------------|--------------|-----------------------|----------|
| GEORGETOWN. | | WASHINGTON—continued. | |
| 36..... | Of 22 | | |
| 49..... | Of 22 | 772..... | 15 |
| 51..... | Of 54 and 55 | 772..... | 16 |
| 39..... | Of 6 | 772..... | 17 |
| | | 772..... | 18 |
| WASHINGTON. | | 804..... | 2 |
| 266..... | S. 14 | 804..... | 3 |
| 266..... | 3 | 804..... | 4 |
| 266..... | 4 | 804..... | 5 |
| 266..... | 5 | 804..... | 6 |
| 266..... | 6 | 804..... | 7 |
| 266..... | 7 | 804..... | Of 8 |
| 266..... | N. 3, 8 | 806..... | 3 |
| 266..... | 11 | 806..... | 4 |
| 710..... | All. | 855..... | 5 |
| 712..... | 1 | 855..... | 6 |
| 671..... | All. | 855..... | 7 |
| 672..... | All. | 855..... | 8 |
| 711..... | All. | 855..... | 9 |
| 772..... | 1 | 855..... | 10 |
| 772..... | 2 | 855..... | 11 |
| 772..... | 12 | 855..... | 12 |
| 772..... | 13 | 855..... | 13 to 24 |
| 772..... | 14 | | |

DECEMBER 9, 1885.

Ordered, That hereafter when improvements or repairs are made to sidewalks and alleys under the permit system, the abutting property shall be charged with the cost of labor employed upon the work only.

(2) That Commissioner W. B. Webb is hereby selected to be a trustee of the Reform School, vice Commissioner James B. Edmonds, who declines to further act in that capacity.

DECEMBER 24, 1885.

Ordered, That the name of the school building situated on the reservation between Eighth and Ninth streets and K street and Virginia avenue southeast, heretofore known as "Anacostia School," shall hereafter be known as "Weightman School," in honor of the late Roger C. Weightman, formerly mayor of the city of Washington.

JANUARY 6, 1886.

Ordered, That all persons selling liquor to be drunk upon the premises where sold, in whatever quantities, will be regarded as coming within the tenth section of the act of the legislative assembly of the District of Columbia imposing a license on trades, business, and professions, &c., approved August 23, 1871, and providing for the enforcement and collection of fines and penalties for failure to comply with its provisions, which said tenth section is as follows :

"SEC. 10. And be it further enacted, that every place where distilled or fermented liquors are sold in less quantity than one pint, to be drank on the premises, shall, unless kept by apothecaries, be known as a bar room, sample room, or tipping house, as the case may be; and it shall be the duty of the proprietor of every such place to present with his application for license the written permission of the majority of the owners of real estate, and a majority of the residents keeping house on the same side of the square where it is desired to locate such business, and of the side of the square fronting opposite the same, which permission shall be certified to by the assessor, and such license shall not be issued until approved by the Board of District Commissioners; *Provided*, That the failure of any keeper of a hotel, eating house, tavern, or restaurant to obtain license to sell distilled or fermented liquors in quantity of less than one pint, shall not otherwise affect said business of keeping a hotel, eating house, tavern, or restaurant, he having a license for the same," and all such persons as hereinbefore mentioned will be required to comply with the provisions of that section.

FEBRUARY 3, 1886.

Ordered, That the requisite proceedings having been taken by all the owners of the north part of square numbered 155, in conformity to the act of Congress entitled "An act to authorize the changing of alley-ways in the city of Washington," approved July 6, 1882, so much of the old alley-ways in said square as the petitions ask to have closed is hereby closed as prayed for, and as is indicated for that purpose on the plan hereto attached (L. R. 125, 709, C. O.), and the new alley-ways proposed by the petitioners to be substituted therefor, as indicated on said plan, are hereby declared open as public alleys.

MARCH 2, 1886.

Ordered, That hereafter Commissioner Edmonds is charged with special supervision of the officers of the fire department, assessor (with special assessments), collector of taxes, auditor, Washington Asylum, Industrial Home School, and general charities.

2. That hereafter Commissioner Webb is charged with special supervision of schools, police, health office, attorney, and coroner.

MARCH 8, 1886.

Ordered, That the subdistricts designated in the order of March 15, 1883, for the purpose of levying an assessment of the real estate in the District of Columbia pursuant to the requirements of the act of March 3, 1883, are hereby prescribed as the subdistricts for the assessment of

real estate in said District to be made in 1886, excepting the 4th and 5th subdistricts, which are modified as follows:

The fourth subdistrict shall include that part of the city of Washington bounded by Nineteenth street west, to H street north, thence west to Twenty-first street west, thence south to the Potomac River, thence along the Potomac River and Rock Creek to Boundary street, and thence to Nineteenth street west and Boundary.

The fifth subdistrict shall include that part of Washington bounded east by eastern boundary of the 4th subdistrict, on the north by Boundary street from Nineteenth street west, to Fifteenth street west, thence south to B street south, thence east to Fourteenth street west, thence west to Fifteenth street west, and thence south to Potomac River.

APRIL 1, 1886.

Ordered, Commissioner William B. Webb is hereby chosen president of the Board of Commissioners for the District of Columbia, and Commissioner Samuel E. Wheatley, president *pro tempore* of said Board.

Until otherwise ordered the Commissioners shall severally have special supervision of the departments and business of the government of said District, as follows:

| Subject. | Commissioner in charge. | Subject. | Commissioner in charge. |
|--|-------------------------|---|-------------------------|
| Attorney | Com'r Webb. | Lamps and gas | Com'r Ludlow. |
| Alleys | Com'r Ludlow. | Liquor licenses | Com'r Webb. |
| Alms-house, Georgetown | Com'r Webb. | Liquors, spirituous, gauger and inspector of | Com'r Webb. |
| Alms-house, Washington Asylum. | Com'r Webb. | Lumber, inspectors and measurers of | Com'r Wheatley. |
| Assessor and special assessors. | Com'r Webb. | Markets | Com'r Wheatley. |
| Asylum, Washington | Com'r Webb. | Municipal building, care of | Com'r Ludlow. |
| Auditor | Com'r Webb. | Parking Commission | Com'r Ludlow. |
| Avenues | Com'r Ludlow. | Paupers, transportation of | Com'r Wheatley. |
| Boilers, inspector of | Com'r Ludlow. | Permits for business and entertainments for which no license is required. | President of Board. |
| Bridges, all, not under supervision of engineer in charge of public buildings and grounds. | Com'r Ludlow. | Pharmacy, commissioners of | Com'r Webb. |
| Buildings, construction and repair of | Com'r Ludlow. | Plumbing, inspector of | Com'r Ludlow. |
| Buildings, inspector of | Com'r Ludlow. | Police | Com'r Wheatley. |
| Building, municipal, care of | Com'r Ludlow. | Police rewards | Com'r Wheatley. |
| Charities, charitable and reformatory institutions receiving aid from District, investigation of, management of. | Com'r Webb. | Railroads | Com'r Ludlow. |
| Chesapeake and Ohio Canal matters. | Com'r Wheatley. | Reform School, trusteeship | Com'r Webb. |
| Coal, inspection of | Com'r Wheatley. | River front | Com'r Ludlow. |
| Collector of taxes | Com'r Webb. | Roads | Com'r Ludlow. |
| Columbia Hospital for Women, trusteeship. | Com'r Wheatley. | Salted provisions, inspector of | Com'r Wheatley. |
| Contracts, preparation, record, and custody of | Com'r Ludlow. | Schools | Com'r Webb. |
| Coroner | Com'r Wheatley. | Sealer of weights and measures. | Com'r Wheatley. |
| Fire Department | Com'r Wheatley. | Sewers | Com'r Ludlow. |
| Flour, inspection of | Com'r Wheatley. | Special assessments | Com'r Webb. |
| Gas and lamps | Com'r Ludlow. | Streets | Com'r Ludlow. |
| Gas and meters, inspectors of | Com'r Ludlow. | Supplies, issue of | Com'r Ludlow. |
| Harbor master | Com'r Ludlow. | Surveyor's office | Com'r Ludlow. |
| Health officer | Com'r Wheatley. | Telegraph lines | Com'r Ludlow. |
| | | Telegraph and telephone service. | Com'r Wheatley. |
| | | Water department | Com'r Ludlow. |
| | | Wood, inspectors and measurers of | Com'r Wheatley. |
| | | Workhouse, Washington Asylum. | Com'r Webb. |

JANUARY 6, 1886.

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The fifth subdistrict shall include that part of Washington bounded east by eastern boundary of the 4th subdistrict, on the north by Boundary street from Nineteenth street west, to Fifteenth street west, thence south to B street south, thence east to Fourteenth street west, thence west to Fifteenth street west, and thence south to Potomac River.

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| Alleys | Com'r Ludlow. | Liquor licenses | Com'r Webb. |
| Alms-house, Georgetown | Com'r Webb. | Liquors, spirituous, gauger and inspector of. | Com'r Webb. |
| Alms-house, Washington Asylum. | Com'r Webb. | Lumber, inspectors and measurers of. | Com'r Wheatley. |
| Assessor and special assessments. | Com'r Webb. | Markets | Com'r Wheatley. |
| Asylum, Washington | Com'r Webb. | Municipal building, care of. | Com'r Ludlow. |
| Auditor | Com'r Webb. | Parking Commission | Com'r Ludlow. |
| Avenues | Com'r Ludlow. | Paupers, transportation of. | Com'r Wheatley. |
| Bailers, inspector of | Com'r Ludlow. | Permits for business and entertainments for which no license is required. | President of Board. |
| Bridges, all, not under supervision of engineer in charge of public buildings and grounds. | Com'r Ludlow. | Pharmacy, commissioners of. | Com'r Webb. |
| Buildings, construction and repair of. | Com'r Ludlow. | Plumbing, inspector of | Com'r Ludlow. |
| Buildings, inspector of | Com'r Ludlow. | Police | Com'r Wheatley. |
| Building, municipal, care of. | Com'r Ludlow. | Police rewards | Com'r Wheatley. |
| Charities, charitable and reformatory institutions receiving aid from District, investigation of, management of. | Com'r Webb. | Railroads | Com'r Ludlow. |
| Chesapeake and Ohio Canal matters. | Com'r Wheatley. | Reform School, trusteeship .. | Com'r Webb. |
| Coal, inspection of | Com'r Wheatley. | River front | Com'r Ludlow. |
| Collector of taxes | Com'r Webb. | Roads | Com'r Ludlow. |
| Columbia Hospital for Women, trusteeship. | Com'r Wheatley. | Salted provisions, inspector of. | Com'r Wheatley. |
| Contracts, preparation, record, and custody of. | Com'r Ludlow. | Schools | Com'r Webb. |
| Corner | Com'r Wheatley. | Sealer of weights and measures. | Com'r Wheatley. |
| Fire Department | Com'r Wheatley. | Sewers | Com'r Ludlow. |
| Flour, inspection of | Com'r Wheatley. | Special assessments | Com'r Webb. |
| Gas and lamps | Com'r Ludlow. | Streets | Com'r Ludlow. |
| Gas and meters, inspectors of. | Com'r Ludlow. | Supplies, issue of | Com'r Ludlow. |
| Harbor master | Com'r Ludlow. | Surveyor's office | Com'r Ludlow. |
| Health officer | Com'r Wheatley. | Telegraph lines | Com'r Wheatley. |
| | | Telegraph and telephone service. | Com'r Ludlow. |
| | | Water department | Com'r Wheatley. |
| | | Wood, inspectors and measurers of. | Com'r Webb. |
| | | Workhouse, Washington Asylum. | |

APRIL 10, 1886.

Ordered, That the second paragraph of the order of the Commissioners of October 29, 1880, and the amendment thereto passed November 19, 1880, are hereby repealed, and in lieu thereof it is—

Ordered, That the carriage-way and sidewalk contiguous to the curb on the south side of "B" street, between Seventh and Twelfth streets northwest, and of the north side of said street between Tenth and Twelfth streets northwest, is assigned, free of charge, to the use of farmers, exclusively for marketing in this city products of their own raising, subject to such minor regulations as the Commissioner having special supervision of markets shall approve. The police of the fifth precinct shall co-operate in the enforcement of this order.

APRIL 24, 1886.

Ordered, That the order of April 23, 1885, designating the north side of M street between Connecticut avenue and Eighteenth street as a place where four one-horse vehicles may stand, is hereby amended by providing that six such vehicles may occupy that stand.

MAY 7, 1886.

Ordered, That the Capitol, North O street and South Washington Railway Company is hereby authorized to extend its two tracks from their present terminus at Water and M streets southwest, along Water street to N street southwest, for the purpose of reaching its depot at the latter point; provided that this permit shall be subject to revocation at the pleasure of the Commissioners, and that said company or its successors shall promptly remove said tracks without expense to the District of Columbia when notified to do so. Said tracks shall be laid under such regulations as the Engineer Commissioner may prescribe.

MAY 11, 1886.

Ordered, That the division lines of street parking in front of lots facing circles or avenues shall be coincident with the party lines of such lots.

2. That Charles H. Burgess is hereby permitted to run a side track from the Metropolitan Branch of the Baltimore and Ohio Railroad into his wood and coal yard on northeast corner of square 672, according to the diagram filed with L. R. 127,935 C. O., under such regulations as the Engineer Commissioner may prescribe. This permit is subject to revocation at the pleasure of the Commissioners of the District of Columbia.

MAY 15, 1886.

Ordered, That the public school building on the corner of Prospect and Langan streets in the city of Georgetown, is hereby named "Threlkeld School", in honor of the late John Threlkeld of that city.

2. That the public school building on the space at the intersection of Virginia avenue, K, and Ninth streets southeast, in the city of Washington, is hereby named "Lenox School," in honor of the late ex-mayor Walter Lenox of said city.

MAY 20, 1886.

Ordered, That a portion of the carriage-way of New York avenue adjacent to the curb line on the south side of the triangular reservation between Thirteenth and Fourteenth streets, beginning at the eastern end of said reservation and sufficient for the accommodation of four wagons, is hereby located as a wagon-stand, subjected to such regulations as the Engineer Commissioner may prescribe, and to discontinuance at the pleasure of the Commissioners.

MAY 24, 1886.

Ordered, That advertisements for any department of the government of the District of Columbia be inserted in the two morning and the two evening newspapers published in said district, except where otherwise prescribed by law.

MAY 28, 1886.

Ordered, Meetings of the Board of Commissioners shall be held at 12 o'clock m., on Tuesday, Thursday, and Friday of each week. All orders inconsistent herewith are hereby revoked.

June 19, 1886.

(1) *Ordered*, That agreeably to the requirements of law the following rules are hereby adopted for the government of the fire department of the District of Columbia, and each member of said department shall be furnished with a copy of them.

Violation thereof shall be deemed cause for such penalty consistent with law as the Commissioners of the District may deem proper to approve:

Every member of said department while on duty shall devote his whole time to the business of the department and is expressly prohibited from giving his attention to any other business. He shall be obedient and respectful to his superior officers.

CHIEF ENGINEER.

(2) The chief engineer shall have sole command at fires over all other officers and members of the fire department, and all other persons present, and take all proper measures to extinguish fires, protect property, preserve order, and cause the several engines to be placed in the most advantageous situations. He shall keep informed of the condition of the force, fire apparatus, and other property, and report to the Commissioners annually and as often as necessary or directed upon the same the transactions and needs of the department, the names of the force, the amount of property destroyed by the fire, and the insurance on the same. He shall have full police powers while going to, while at, or returning from fires or alarms of fire.

He shall visit, or cause the assistants to chief engineer to visit, the several houses of the department daily and see that the apparatus is in proper condition and the men at their posts.

ASSISTANTS TO CHIEF ENGINEER.

(3) The assistants to chief engineer will, on first alarm, perform fire duty within the limits prescribed for them herein, respectively, and, in case of the absence of the chief engineer, assume his duties and authority at the fire, until relieved by his arrival or orders.

On a "general" or "second" following a regular alarm the assistant chief engineer of the first battalion will not come east of First street west, except for a fire at the Government Printing Office, and the assistant chief engineer of the second battalion will not come west of Seventeenth street west, except on special orders.

In case of the absence of the chief engineer from a fire, at which both assistants are present, the assistant, within whose limits the fire is, shall have command.

When an alarm for a second fire is given the assistant chief engineer on reserve will report and take charge.

On all "special," "second," or "general" alarms the duties of the assistant chief engineers will be as follows: To organize extra engine companies, for which purpose a sufficient number of men from engine and truck companies will be detailed, or other men hired, if necessary. These made-up or extra companies will be held in reserve in truck-houses, to respond to other alarms for fires or to be utilized on extraordinary occasions at a large fire whenever necessary.

FOREMEN.

(4) It shall be the duty of the foremen to see that the engine and truck-houses, apparatus, horses, and other property committed to their care are kept neat and clean and in order for immediate use. They shall preserve order and discipline in their respective companies, and enforce compliance with all laws in relation to the fire department and these rules and regulations. They shall keep rolls specifying the occupation, age, time of admission, and discharge of each member, and an account of all the fire department property intrusted to their care, and of all absence or tardiness of the members, in a book provided for that purpose, and shall, as often as required by the chief engineer, make reports to him respecting the same and all other matters connected with their official duties; and such rolls or records shall always be subject to the access and order of the chief engineer. The foreman shall, on the first secular day of each month, make requisition for all articles that may be required for the month. They shall receipt for work performed and supplies furnished to their respective engine or truck-houses, and certify to the quality and quantity of work so performed and supplies so furnished, and shall weigh or measure all articles delivered when they suspect the weight or measure is incorrectly set forth in the bill for the same.

(5) The foreman or commanding officer of each company shall remain with the company of which he has charge, preserve order, and direct its operations, except when at meals or on leave of absence; and all members of the several companies, except when otherwise engaged on special duty, shall remain at or about the apparatus to which they are attached. Each foreman will be held responsible for the conduct of his men while on duty, and shall report in writing to the chief engineer any dereliction of duty or violation of the rules by them.

In case of the absence of the chief and assistant chiefs from a fire, the foreman of the company first arriving shall take command until relieved by their arrival or orders.

Foremen shall have full police powers while going to, while at, or returning from fires or alarms of fires.

ASSISTANT FOREMAN.

(6) In the absence of the foreman the assistant foreman shall perform his duties.

ENGINEERS.

(7) The engineer of each company shall be at the engine-house or attending his apparatus to alarms, except when on his day off, or at meals, or otherwise ordered. He shall have his engine ready for service at all times and shall accompany it to all fires or alarms when on duty. He shall be required to do all ordinary repairing and shall also instruct the firemen in the workings of his engine. He shall be subject to the direction of his foreman or other superior officer in the discharge of his duties. Engineers will be held responsible for the proper condition of their apparatus, and any needed repairs must be promptly reported to the chief engineer through the foreman. When in service at fires the limit for steam-pressure shall be from 60 to 80 pounds, unless by special order of the chief or assistant chief engineer.

FIREMEN.

(8) Each fireman shall be on duty at his engine-house or attending his apparatus to alarms, except on his day off, or when at meals, or otherwise ordered. He shall be subject to the engineer in regard to the working and cleaning of the engine, and shall assist the engineer in keeping the apparatus in working order. The fireman will make himself familiar with the various parts of the engine, pumps, and boiler, and be able at all times to run the same in the absence of the engineer at fires.

HOSTLERS.

(9) The hostlers shall have charge of the horses of their respective companies, and shall have them at all times ready for immediate service. They shall report to and otherwise execute the directions of the foreman, and shall be on duty at the engine or truck

house or attending their horses as ordered at all times, except during their day off or at meals. While exercising horses they shall not go further from the house than directed by the foreman. They shall see that the forage furnished to their stock is of good quality, and shall report to the foreman the quantity of the same certified by the weighmaster. Upon arriving at the fire-ground hostler will pay especial attention to the horses, which in bad weather must be blanketed and exercised, or may be housed at the nearest convenient point, upon the permission of the officer in charge, without cost to the District. They shall at all fires take charge of the hose-carriage teams, which shall be turned over to them by the driver as soon as the line of hose is laid.

PRIVATES.

(10) The privates shall not, except when on their day off, when responding to alarms, or when at meals, be absent from their engine or truck houses without the consent of the foreman and assistant chief engineers.

(11) Persons to be eligible to membership in the department must be citizens of the United States, over twenty-one and not over thirty-five years of age, shall weigh not less than 150 pounds, and be not less than 5 feet 8 inches in height, and resident in the District of Columbia for at least one year preceding the date of their application, possessed of good moral character, and found physically competent to perform the duties of a fireman by the board of surgeons of this department, and never have been convicted of an infamous crime.

(12) Refusal to pay any just debt contracted while a member of the department within a reasonable time shall be deemed a violation of these regulations.

(13) Racing to and from fires or alarms, and malicious or careless driving or other conduct is forbidden. When apparatus of several companies proceed on the same street to or from a fire they shall do so in single file.

WATCH DUTY.

(14) From 10 p. m. to 6 a. m. a strict watch shall be maintained at each of the houses in reliefs, as near as possible of one hour each. The foreman and engineer of engine companies and foreman and tillermen of truck companies shall on alternate nights be held responsible for the enforcement of this order.

PROMOTIONS.

(15) Vacancies occurring in the following grades, viz, foreman, engineer, fireman, hostler, or tillerman, shall be filled by promotion from the members of the department fully qualified to perform the duties required of them.

DISCIPLINE.

(16) No spirituous or malt liquors shall be allowed in any engine or other house of the department, and any member who shall be intoxicated at any time or place shall be deemed a violator of these rules.

(17) In conduct and deportment the members must be orderly, decorous, and attentive, and at all times refrain from harsh, violent, coarse, profane, or insolent language.

(18) During the sickness or absence from the city of any officer or member of the fire department his place shall be filled by such person as he may select, with the approval of the chief engineer.

(19) Every person appointed to full membership in the fire department shall subscribe and take the following oath of office:

"I, ———, will support the Constitution of the United States and discharge the duties of the office I am about to enter to the best of my knowledge and ability."

(20) Foreman shall promptly report any violations of these rules and regulations to the chief engineer.

(21) All charges or complaints against members of the department shall be made in writing.

VISITORS.

(22) Facility to citizens or strangers to examine the company quarters, apparatus, horses, &c., will be afforded on application being made to the foreman, but loitering within or about the several company quarters by persons not connected with the department is strictly prohibited.

SMOKING PROHIBITED.

(23) Smoking going to, while at, or returning from fires, or in or about the stables of the department is strictly prohibited.

UNIFORMS.

(24) The chief engineer's full dress uniform shall be a double-breasted, close-fitting frock coat of dark blue cloth, pure indigo dye, cut to button close to the neck, with rolling collar, to have nine buttons (medium size) of brass or other metal, with the monogram "C. E." thereon; the buttons grouped in threes; the cuffs to be made to fit the wrists and closed with three small buttons of like pattern; a pocket on the inside of right breast; the sleeves to be cut only so large as to be convenient to wear inside of the overcoat; the length of the coat to be in proportion to the height of the man; the coat to be lined with light blue cloth or flannel. Pantaloon made of the same material as the coat. Fire hat and belt the same as now worn by the chief engineer of the department.

(25) The assistant chief engineers' full dress uniforms shall be like that of the chief, except the coat, which shall be a box coat, have eight buttons in front and four buttons on the cuff of each sleeve; the words "assistant chief engineer" on the frontispiece of the hat, and the belt shall be white, bound with red, and red ground for the words.

(26) *Foreman*.—The full dress of each foreman shall be a white fire hat with black front, with name of his office and number of the company to which he is attached thereon, and blue coat, as now worn, with three buttons on the cuff of each sleeve, and blue pants; belts to be plain white, with number of company on the slide, "foreman" on red ground.

(27) The full-dress uniform of all other members of the department shall be blue coats and pants, as now worn, the coats to have two buttons on cuffs of each sleeve; green fire hats, having the number of their respective companies on the front. The engineers, firemen, and hostlers to have the name of their respective offices above the number of their companies and upon the belt. The privates shall have the letters "D. C. Fire Department" upon the belt. Fatigue uniform for winter to be of cloth, with blue flannel shirt and cap; to be worn from October 1 to May 1. Fatigue uniform for summer to be of blue flannel, with white shirt and brown straw hat; to be worn from 1st of May to September 30. All members of the department must appear on the fire-ground in their appropriate uniforms.

TRIAL BOARD.

(28) A trial board shall be established, consisting of one assistant chief engineer and two regular foremen, who shall be designated by the chief engineer, who shall investigate all charges preferred against members of the department and make recommendations in the case, subject to review by the chief engineer and approval of the District Commissioners.

GENERAL DIRECTIONS.

In the event of a fire being, or threatening to be, a large one, the officer in command thereat shall promptly turn in a special, second, or general alarm, as the case may, in his judgment, demand, and if a subordinate officer, promptly report his action to his superior officer first arriving. No officer of a company shall leave the fire-ground with his company unless he has reported to the officer in command and has been ordered home.

General Signal Call Numbers.

- 2, 2, 2—General call.
- 2, 3—I understand signal or O. K.
- 3—Repeat signal.
- 7—What station?

Special Signals to Operators in Central Office.

- 8 continuous taps, followed by number of company wanted—special alarm.
- 9 continuous taps—second alarm.
- 22—general alarm.

Special Signal Calls to Companies in Quarters.

- 8 continuous strokes on bells and gongs—special alarm.
- 9 continuous strokes on bells and gongs—second alarm.
- 10 continuous strokes on bells and gongs—general alarm.

Companies' Special Call Signals.

- 8, 1. Engine Company No. 1, special call number.
- 8, 2. " " " " " "
- 8, 3. " " " " " "
- 8, 4. " " " " " "
- 8, 5. " " " " " "
- 8, 6. " " " " " "
- 8, 7. " " " " " "
- 8, 8. Reserve engine, at Truck "A" house.
- 3, 3, 1. Truck Company "A," special call number.
- 3, 3, 2. " " "B," " " "
- 3, 3, 3. Fuel wagon, " " "
- 3, 3, 4. Ambulance, " " "
- 5, 5, 1. Accident and distress signal, " " "
- 5, 5. Increase water supply signals.

All special calls as herein specified will be followed by one round of the fire-alarm station, except as herein otherwise prescribed.

General Officers' Special Call Signals.

- 4, 4. Chief engineer.
- 4, 4, 1. Assistant chief engineer, first battalion.
- 4, 4, 2. Assistant chief engineer, second battalion.

Signals for House Drill.

- 1 stroke on gong, hitch horses to apparatus.
 - 2 strokes on gong, take position alongside of apparatus.
 - 3 strokes on gong, mount.
 - 4 strokes on gong, dismount.
 - 5 strokes on gong, dismiss company.
- Companies will take position according to numerical order out of quarters.

Explanation of Rules for Using and Sending Special Call Signals.

Each company is furnished with a printed list of the location of street fire alarm and telephone stations, with assignments of companies on a first regular, second, or general alarm.

The rules for the special-call signals and the proper use of them are intended to cover any circumstances that may exist at one or more fires.

Each fire-alarm station is furnished with a telegraph key, to be used for sending signals, second alarm, and general alarm signals when the automatic repeater is switched out.

Special, second, and general alarms will be sent under the direction of the officer in command at a fire. If, after the use of the telegraph key, no response to a signal is received from the central office, then the key in the next nearest station will be used.

All signaling to the central office must be preceded by the officers' call or the general firemen's call of 2, 2, 2, the operator to repeat the call he receives, after which the person at the station will send in the signal he desires, as follows:

If, for instance, he wishes to ask from what station an alarm has been given, he will give seven taps with the telegraph key in the station, the operator answering by giving him the number of the station. If the number sent by the operator is understood by the person at the station he will tap back to the office 2, 3; if he does not understand he will give three taps, asking that the number of the station be repeated, which will be done by the operator until understood.

All signaling in the code may be done in a similar manner where not otherwise provided for.

POSITION OF STEAMERS AT FIRES.

The first company arriving on the ground will take the nearest plug to the fire, if it can be done with safety; the second the same, if the water supply is ample for both, of which the first shall be the judge; if not, the next nearest. The other companies arriv-

ing on the ground will take nearest position, to the leeward, when practicable, which shall be the position for the pipe men of the respective companies.

The foreman of each company, or, in his absence, his assistant, shall see that a line of hose of sufficient quantity is properly laid out for service, and then take position with his pipeman in order to direct the men as to the use of the stream, and it must at all times be taken to the point where the most execution can be accomplished. The officer in charge of a stream will report whether he can hold his position or not to the officer in charge by a man detailed for that purpose, as under no circumstances at a large fire shall he leave his position at the pipe.

In the case of a very hot fire or a special point to be held by one or more companies there shall be two lines of hose from the steamer, the second to be held as a reserve, in the event of the first becoming disabled. This is to avoid the loss of time by replacing disabled lines. This does not prohibit the using of two streams when necessary on ordinary occasions.

Before reserve engine companies go into action at a fire the foreman shall report to the chief or assistant chief for positions.

In the event of a large fire arrangements for using the compound pipe (or Siamese) will be made by the officer in charge; right-hand discharge or engine will be known as No. 1 stream, the left-hand as No. 2 stream.

POSITION OF TRUCK COMPANIES AT FIRES.

The truck will take position as near the fire as possible, and the foreman report to the officer in charge. He will respond to all demands, as far as able, from the foreman of the engine companies, and will see that his men are always at their posts unless executing some special orders. The whole company must be drilled once a week for ladder duty, and each and every member must become proficient in the raising of ladders, and the foreman will make necessary arrangements so that each man will have a specified duty in this particular, and at the same time be capable of doing any other work should circumstances require it.

GOING TO AND FROM FIRES.

The officer in command of a company will on no account leave the house until he has taken a correct alarm, and should the gong strike wrong he must signal telegraph headquarters for information. This must not interfere in going to a fire on light before an alarm is given on bells, provided the same is within the district to be answered by the company when the alarm is struck.

The first two companies due at a box shall make all necessary speed consistent with the safety of horses and apparatus.

The officer in command of the company will direct the apparatus to be driven by the nearest and best route, and see that the apparatus follow one the other and the hose-carriage to keep in advance and within a square of engine going to and returning from fires, and, in the event of two pieces of apparatus of different companies being in the same street *en route*, the company in the lead must maintain the same at its ordinary speed. If the latter should attempt to pass, except in case of accident to the former, it shall be considered a violation of orders.

In crossing all bridges, especially between Washington and Georgetown, both in going to and coming from fires, foremen will see that the horses are not driven faster than a walk.

TWO OR MORE FIRES.

In case a second alarm of fire occurs while serving an alarm and before the "out" stroke is sounded the two nearest reserve companies will respond, and, in the event of a third fire, the remainder will respond. On occasions when the reserve engines at the houses of truck companies not serving an alarm are needed the signal will be 8-8. At all general alarms, if there be sufficient horses, both the truck and reserve engine will be brought out; otherwise the truck, unless the signal 8-8 has been previously received.

SCARCITY OF WATER.

In case a fire occurs 1,500 feet or more from where a supply of water can be obtained the officer in charge of the first company arriving will select the nearest and best place where water may be obtained, and three whistles from his engine shall be the signal that the second company which responds is wanted to line in with the first company. The apparatus in getting promptly to work on the fire. The second company will not under any circumstances stretch into a fire (as stated in this case) unless the company has sufficient hose to reach and can do more efficient service alone than by combining or lining in with the first company.

THE FUEL CART.

The fuel cart will respond to all special, second, and general alarms.

Companies to report on leaving quarters.

Companies leaving quarters for any cause, except for alarm, signals, or orders from the central office, will notify the central office by telephone, who will notify all other companies in quarters.

Reporting return to quarters.

The return to quarters is to be reported immediately to the central office by the use of the telephone. Only part of the fires must be drawn and extinguished before leaving the fire-ground. The operators in the central office will notify the assistant chief engineer and the companies on reserve of the return to quarters of those companies that have answered an alarm.

Time when signals can be sent through telegraph key in fire-alarm station.

The automatic repeater will be switched out of circuit immediately after each regular alarm and remain out for thirty (30) minutes, during which time any signals included in the code may be sent to the central office from any fire-alarm station. After the expiration of the prescribed thirty minutes, or in case that the "out" signal is struck before this time has expired, all communication to the central office will be by telephone.

Ordering special alarm.

A special alarm may be ordered at any time by telephone and will be transmitted by the operator to the companies wanted, either by telephone or on the gongs and bells.

When a special alarm is received and the companies ordered are not in quarters the operator will notify the next nearest company or companies, as the case may be.

Companies changing quarters.

Should an officer from any cause require the temporary presence of a company in the quarters of another company he can call the same by telephone through the central office, and the company so called, after being located, shall, for the time being, drop its own number and perform the duties at all fire-alarm stations of that company, which place it temporarily occupies.

Company or company's special calls.

Officers in charge of companies will understand that when their company's special alarm signal has been given, followed by one round of any fire-alarm station, that their company is wanted at that station.

The number of the company shall in all cases precede the number of the fire-alarm station where required. This rule will also be observed if more than one company are wanted at one or more fires.

Distress signals.

Should a company leave its quarters to respond to a still or any alarm for fire from the central office, and be prevented, from accident or any other cause, from reaching the fire-alarm station or destination to which it is proceeding, the officer in charge of that company shall immediately report the fact to the central office from the nearest telephone, and in such an event the operator will either send the next nearest company of that branch of the service or transmit such orders as the officer in command of the disabled company desires.

Extra service at one fire on a regular alarm.

If only one regular alarm has been sent out the extra service that may be ordered will always be understood to be wanted at the station from which the alarm was given, and the number of the station will not be called for by the operator or given by the sender of the signal.

Two or more regular alarms for fires.

In case that a second fire occurs and an alarm is given while the companies serving first alarm have not returned to quarters the two nearest reserve engine and truck companies will respond; and in the event of a third fire at or about the same time the remainder will go into service.

When two boxes within a radius of a third of a mile are turned in nearly simultaneously the operator will use discretion in striking off the second. This is to prevent the reserve engines from being sent unnecessarily to a fire for which alarms have been turned in from two boxes.

The Officer sending signals to wait for signal seven from central office.

If two or more regular alarms have been given at or about the same time, and are followed by a "special," "second," or "general" alarm, or other extra service, the operator will, by giving seven taps with his key, ask at what station the extra service is wanted. The sender of the signal will then give the number of the station. The operator will then transmit the signal and one round of the station to the proper companies in quarters.

Example of the above.

As an example of signaling, we will suppose that alarms have been struck from stations 62 and 134, and that a general alarm is wanted at station 62.

The chief engineer's call-signal, 4, 4, or assistant engineer's signal will be used to call the central office, and the operator will answer it by repeating the same signal. The person at the station will then give the general-alarm signal, 2, 3, 2, the operator answering with seven (7) taps, asking at what station the general alarm is wanted. The sender of the signal will then give the number of the station, 6, 2, the operator replying, 2, 3, if he understands; if not, he will give three (3) taps, asking that the signal be repeated, which will be done until it is understood by the operator.

If any other extra service is wanted use the signal for that service in place of the general-alarm signal, as given above.

To consolidate the department at once when two alarms are given.

In the event of two or more fires at or about the same time and a general alarm is received at the central office from either of them the operator will use every possible means to get all the apparatus to the station from which the general alarm has been given as speedily as possible.

Assistant chiefs or officers in command at a station are charged with the duty of releasing the key from the fire-alarm station, returning it to the holder. This is, however, not to interfere with their more important duties at a fire.

The "Out" Stroke.

The "out" strokes shall be ordered by the officer in charge of a fire, and when two or more alarms have been given will inform the operator by telephone whether it is the first, second, or other alarm, and the operator will give one, two or more strokes on the gongs and bells, corresponding to the number given him.

Companies in reserve.

The companies not answering the first alarm shall keep the horses harnessed to their apparatus for not less than twenty minutes.

Hose.

It shall be the duty of the foreman to see that the line of hose on his carriage is in perfect condition at all times, and no excuse will be taken for any violation or infringement of this order. Hose borrowed from another company to lengthen out the line shall, in all cases, be promptly returned when the fire is out. Hose, whether used or not, shall be changed every twelve days.

Days off.

Officers and privates will be allowed a day off every sixth (6th) day, but the meal hours and days off must be so arranged that at all times there shall be seven men on duty at each house. Sickness or absence of one or two members of a company will pre-

vent the usual days off of the remainder. A man's "day off" will not begin until it is arranged that there will be a full complement of seven men on duty from the time he leaves. In case of fires men "off" will be marked absent by the officer in charge unless they report before the company returns to quarters. The habit of firemen, on their day off duty, loitering about the engine-houses and interfering with the discipline of the companies they visit, will in future be discouraged by the foremen and avoided by the men.

Etiquette.

Officers of the several companies while on duty will be designated and addressed by their official titles.

Sanitary.

The horses of each company must be fed and groomed and the stables clean and in perfect order by 9 o'clock each morning throughout the year. The house must be properly cleaned and in good sanitary condition at all times.

Receiving Visitors

Positions for receiving official visitors will be a single file front alongside of hose-carriage, facing engine. Foreman to front and center.

When the Commissioners of the District, the chief or assistant chief engineers (the last mentioned accompanied by visitors) shall call at the houses the foreman shall signal the company to attention, and they shall remain in that position, unless relieved, until the guests have been shown through the house.

The efficiency of the several companies shall be determined by the average work during the year, and the foreman shall make a duty to see that the men are so thoroughly instructed in the proper mode of working at a fire as to render their labors uniform and reliable, and in order to assist them the following suggestions are offered on the nature of the general duties of foreman:

They should see that the apparatus and all ordinary appliances are ready for use when needed, and that the men are familiar with the practical use of them. Under this head may be classed the placing of apparatus in service within the shortest possible time under any and all circumstances; when and where large or small nozzles can be used the most effectively; how a line of hose should be stretched into a fire, and the necessity for a sufficient quantity being laid, to guard against the probability of the line being cut off by being burnt or damaged by falling walls, and in the event of such accident their arrangements should be perfect to have the line replaced with the least possible delay; the use of judgment and discretion to prevent damage by the unnecessary waste of water; when the fire has reached a head judgment is required in selecting the places and directing the stream or streams where they can be most effective; life-lines should always be ready for use, either for the saving of life or carrying hose to high and difficult points when necessary; they should know the exact location of all fire-alarm stations and fire-plugs, how to open and close them, which plugs require reducers, and the water-pressure in the several sections of the city. It is always desirable to get to work as speedily as possible, but time should be taken to select the most eligible plug and the one from which under all circumstances the best results can be reached.

The chief, assistant chief, and foreman should make themselves familiar with the construction of all buildings where serious fires and consequent danger to life are likely to occur. The position and construction of stairs and elevators in all large buildings are important points, for they contribute in a number of ways to distribute the flames through the building by the intense draught they furnish.

In stores the quantity of stock of inflammable material and where located should be noted; the height, size, and material used in construction of all buildings, as well as the manner in which partitions and party-walls are constructed, are points upon which the foreman should be familiar, in order to enable him to work to the most advantage at all fires, especially large ones.

It is imperative that in all cases of fire the gas should be shut off from the building; in the event of a large fire, from the entire block; also that all windows and openings in the vicinity be closed.

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Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive.

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| Advertising, general..... | 1879 | \$7,000 00 | 20 | 208, 416 |
| Do..... | 1880 | 7,000 00 | 20 | 409 |
| Do..... | 1881 | 7,000 00 | 21 | 162 |
| Do. (deficiency)..... | 1881 | 69 60 | 23 | 251 |
| Do..... | 1882 | 5,000 00 | 21 | 465 |
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| Do..... | 1887 | 20,000 00 | 24 | 132 |
| Aqueduct, Washington, extension of..... | 1882 | 1,535,279 30 | 22 | 170 |
| Do. (deficiency)..... | 1884 | 87,500 00 | 23 | 253 |
| Do. (interest)..... | 1885 | 30,000 00 | 23 | 132 |
| Do. (interest and sinking fund)..... | 1886 | 53,047 27 | 23 | 319 |
| Do. (do.)..... | 1887 | 57,239 62 | 24 | 137 |
| Assessments, general..... | 1879 | 10,000 00 | 20 | 208, 416 |
| Do. (deficiency)..... | 1883 | 8,479 00 | 23 | 252 |
| Do. (deficiency)..... | 1883 | 5,104 00 | 23 | 455 |
| Do..... | 1886 | 15,000 00 | 23 | 313 |
| Assessments, special. (See Special assessments)..... | | | | |
| Assessments, superintendent of. (See Assessor's office)..... | | | | |
| Assessor's office: | | | | |
| { Treasurer's office..... | 1879 | 4,900 00 | 20 | 208, 416 |
| { Assessor's office, including new assessment..... | 1879 | 21,000 00 | 20 | 208, 416 |
| { Superintendent assessment's office..... | 1879 | 9,420 00 | 20 | 208, 416 |
| { Treasurer's office..... | 1880 | 5,300 00 | 20 | 405 |
| { Assessor's office..... | 1880 | 7,250 00 | 20 | 406 |
| { Superintendent assessment's office..... | 1880 | 7,800 00 | 20 | 405 |
| { Treasurer's and assessor's office..... | 1881 | 22,900 00 | 21 | 157 |
| { Assessor's office..... | 1881 | 82 43 | 23 | 251 |
| { Do. (deficiency)..... | 1882 | *18,000 00 | 21 | 460 |
| { Do. (deficiency)..... | 1882 | 1,000 00 | 22 | 273 |
| { Do..... | 1882 | 150 00 | 22 | 273 |
| { Do. (deficiency)..... | 1883 | †17,500 00 | 22 | 138 |
| { Do..... | 1883 | 438 53 | 23 | 252 |
| { Do. (deficiency)..... | 1884 | 12,600 00 | 22 | 462 |
| { Do..... | 1884 | 135 00 | 23 | 253 |
| { Do. (deficiency)..... | 1885 | 13,600 00 | 23 | 123 |
| { Do..... | 1885 | 550 00 | 23 | 454 |
| { Do. (deficiency)..... | 1886 | 13,600 00 | 23 | 311 |
| { Do..... | 1885 | 39 32 | 24 | 263 |
| Association for Works of Mercy (building)..... | 1887 | 14,600 00 | 24 | 130 |
| Asylum, Washington..... | 1887 | 5,000 00 | 24 | 134 |
| Do..... | 1879 | 52,500 00 | 20 | 208, 416 |
| Do. (deficiency)..... | 1880 | 45,169 00 | 20 | 404 |
| Do..... | 1881 | 48,040 00 | 21 | 156 |
| Do. (deficiency)..... | 1880 | 88 82 | 21 | 426 |
| Do. (deficiency)..... | 1882 | 49,020 00 | 21 | 458 |
| Do. (deficiency)..... | 1882 | 5,000 00 | 22 | 273 |
| Do..... | 1882 | 124 61 | 22 | 591 |

* Includes maps.

† Includes special assessment clerk.

Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|---|-------|-------------|------|----------|
| Asylum, Washington | 1883 | \$46,820 00 | 22 | 136 |
| Do | 1884 | 46,830 00 | 22 | 464 |
| Do. (deficiency) | 1884 | 3,500 00 | 23 | 253 |
| Do | 1885 | 52,310 00 | 23 | 126 |
| Do. (deficiency) | 1885 | 4,000 00 | 23 | 456 |
| Do | 1886 | 69,680 00 | 23 | 313 |
| Do | 1887 | 57,385 00 | 24 | 132 |
| Detailed as follows under Salaries; Supplies and contingencies; Buildings and other improvements. | | | | |
| Salaries | 1879 | 9,700 00 | 20 | 208, 416 |
| Do | 1880 | 9,860 00 | 20 | 404 |
| Do | 1881 | 9,540 00 | 21 | 156 |
| Do | 1882 | 10,820 00 | 21 | 458 |
| Do | 1883 | 10,820 00 | 22 | 136 |
| Do | 1884 | 10,820 00 | 22 | 464 |
| Do | 1885 | 11,560 00 | 23 | 125 |
| Do | 1886 | 11,680 00 | 23 | 313 |
| Do | 1887 | 12,885 00 | 24 | 132 |
| Supplies and contingencies | 1879 | 33,300 00 | 20 | 208, 416 |
| Do | 1880 | 35,300 00 | 20 | 404 |
| Do | 1881 | 28,500 00 | 21 | 156 |
| Do. (deficiency) | 1880 | 88 82 | 21 | 426 |
| Do | 1882 | 30,000 00 | 21 | 458 |
| Do. (deficiency) | 1882 | 5,000 00 | 22 | 273 |
| Do. (deficiency) | 1882 | 124 61 | 22 | 591 |
| Do | 1883 | 35,000 00 | 22 | 136 |
| Do | 1884 | 35,000 00 | 22 | 464 |
| Do | 1885 | 35,000 00 | 23 | 125 |
| Do | 1886 | 38,000 00 | 23 | 314 |
| Do | 1887 | 39,000 00 | 24 | 132 |
| Buildings and other improvements: | | | | |
| New hospital | 1879 | 2,000 00 | 20 | 208, 416 |
| Work-house | 1879 | 7,500 00 | 20 | 208, 416 |
| South wing of work-house | 1881 | 10,000 00 | 21 | 156 |
| Bunks, &c., work-house | 1882 | 4,500 00 | 21 | 459 |
| Steam heating, &c | 1882 | 3,700 00 | 21 | 459 |
| Work-house, completion of | 1883 | 1,000 00 | 22 | 136 |
| Hospital repairs | 1884 | 500 00 | 22 | 464 |
| Hospital ward, new (deficiency) | 1884 | 3,500 00 | 23 | 253 |
| Stable, repairs to | 1885 | 2,500 00 | 23 | 125 |
| Cars and tracks | 1885 | 3,250 00 | 23 | 125 |
| Hospital ward, completion (deficiency) | 1885 | 14,000 00 | 23 | 455 |
| Work-house, female | 1886 | 20,000 00 | 23 | 314 |
| Hospital ward, new | 1887 | 3,500 00 | 24 | 132 |
| Dummy engine | 1887 | 2,000 00 | 24 | 133 |
| Attorney's office | 1879 | 10,000 00 | 20 | 208, 416 |
| Do | 1880 | 9,000 00 | 20 | 405 |
| Do | 1881 | 9,000 00 | 21 | 158 |
| Do | 1882 | 8,812 00 | 21 | 461 |
| Do. (deficiency) | 1882 | 33 60 | 22 | 591 |
| Do | 1883 | 8,812 00 | 22 | 138 |
| Do | 1884 | 8,812 00 | 22 | 463 |
| Do | 1885 | 8,612 00 | 23 | 124 |
| Do | 1886 | 8,712 00 | 23 | 311 |
| Do | 1887 | 8,700 00 | 24 | 130 |
| Auditor's office (including special assessment office) | 1879 | 19,000 00 | 20 | 208, 416 |
| Do., including special assessment office | 1880 | 19,000 00 | 20 | 405 |
| Do | 1881 | 13,000 00 | 21 | 157 |
| Do | 1882 | 12,800 00 | 21 | 460 |
| Do | 1883 | 12,900 00 | 22 | 137 |
| Do | 1884 | 12,700 00 | 22 | 462 |
| Do. (temporary clerk) | 1884 | 2,500 00 | 22 | 462 |
| Do. (deficiency) | 1884 | 143 96 | 23 | 454 |
| Do | 1885 | 16,500 00 | 23 | 123 |
| Do | 1885 | 143 96 | 23 | 124 |
| Do | 1886 | 16,500 00 | 23 | 311 |
| Do | 1887 | 16,500 00 | 24 | 130 |
| Avenues and streets | 1879 | 65,781 00 | 20 | 208, 416 |
| Do | 1880 | 100,000 00 | 20 | 403 |
| Basin, Rock Creek. (See Sewers, tidal) | | | 23 | 315 |
| Bonds, 3.65, permanent provision for | | | 20 | 410 |
| Bonds, Washington School, redemption of | 1882 | 70,630 47 | 21 | 465 |
| Bridges, Anacostia, Benning's, and Chain | 1879 | 9,200 00 | 20 | 208, 416 |
| Do | 1880 | 10,200 00 | 20 | 403 |
| Do | 1881 | 11,500 00 | 21 | 156 |
| Do | 1882 | 2,000 00 | 21 | 458 |
| Do | 1883 | 2,000 00 | 22 | 136 |
| Do | 1884 | 2,000 00 | 22 | 464 |
| Do | 1885 | 2,000 00 | 23 | 125 |

* Reappropriated from 1883-'84.

† Reappropriated from 1883.

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Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|---|-------|------------|------|---------|
| Bridges, Anacosta, Benning's, and Chain | 1886 | \$3,380 00 | 23 | 313 |
| Do | 1887 | 2,660 00 | 24 | 132 |
| Bridge over Potomac at Georgetown | 1887 | 240,000 00 | 24 | 84 |
| Bridge at Three Sisters | 1887 | 220,000 00 | 24 | 84 |
| Bridges under Commissioners. (See Streets, Alleys, and Roads) .. | 1879 | ..... | 20 | 208,416 |
| Do | 1880 | 1,000 00 | 20 | 403 |
| Do. (See County roads) | 1881 | ..... | 21 | 159 |
| Do | 1882 | 500 00 | 21 | 458 |
| Do | 1883 | 10,700 00 | 22 | 136 |
| Do | 1884 | 1,500 00 | 22 | 464 |
| Do | 1885 | 500 00 | 23 | 125 |
| Do | 1886 | 6,000 00 | 23 | 313 |
| Do | 1887 | 10,000 00 | 24 | 132 |
| Bridge over James Creek Canal, at M street south | 1883 | 4,656 76 | 22 | 136 |
| Bridge, Rock Creek, M street | 1881 | 6,000 00 | 21 | 156 |
| Buildings, inspector of | 1879 | 5,880 00 | 20 | 208,416 |
| Do | 1880 | 5,880 00 | 20 | 405 |
| Do | 1881 | 5,880 00 | 21 | 158 |
| Do. (deficiency) | 1881 | 6 00 | 23 | 251 |
| Do | 1882 | 6,080 00 | 21 | 461 |
| Do | 1883 | 6,080 00 | 22 | 136 |
| Do | 1884 | 6,260 00 | 22 | 463 |
| Do | 1885 | 6,260 00 | 23 | 124 |
| Do | 1886 | 6,460 00 | 23 | 312 |
| Do | 1887 | 6,460 00 | 24 | 131 |
| Buildings, miscellaneous (see under head of institution or depart- ment for which the building is intended). | | | | |
| Canal, James Creek, dredging | 1882 | 5,000 00 | 21 | 458 |
| Canal, south of Capitol, filling of | 1878 | 15,000 00 | 20 | 250 |
| Do | 1879 | 15,000 00 | 20 | 488 |
| Do | 1880 | 20,000 00 | 21 | 300 |
| Do | 1881 | 20,000 00 | 21 | 515 |
| Do | 1882 | 20,114 00 | 22 | 379 |
| Canal, B street, to deep water | 1881 | 18,600 00 | 21 | 156 |
| Certificates, "Sewer," redemption of | 1886 | 366 96 | 23 | 313 |
| Checks, printing of, included in miscellaneous expenses | 1880 | ..... | 20 | 409 |
| Do | 1881 | ..... | 21 | 162 |
| Do | 1882 | ..... | 21 | 465 |
| Do. (deficiency) | 1882 | ..... | 22 | 273 |
| Do | 1883 | ..... | 22 | 142 |
| Do | 1884 | ..... | 22 | 469 |
| Do | 1885 | ..... | 23 | 130 |
| Do | 1886 | ..... | 23 | 318 |
| Do | 1887 | ..... | 24 | 137 |
| Children's Hospital | 1879 | 5,000 00 | 20 | 208,416 |
| Do. (building) | 1879 | 10,000 00 | 20 | 208,416 |
| Do | 1880 | 5,000 00 | 20 | 404 |
| Do | 1881 | 5,000 00 | 21 | 157 |
| Do | 1882 | 5,000 00 | 21 | 460 |
| Do | 1883 | 5,000 00 | 22 | 137 |
| Do | 1884 | 5,000 00 | 22 | 465 |
| Do | 1885 | 5,000 00 | 23 | 126 |
| Do | 1886 | 5,000 00 | 23 | 314 |
| Do | 1887 | 5,000 00 | 24 | 133 |
| Church Orphanage | 1884 | 1,500 00 | 22 | 465 |
| Do | 1885 | 1,500 00 | 23 | 126 |
| Do | 1886 | 1,500 00 | 23 | 315 |
| Do | 1887 | 1,500 00 | 24 | 133 |
| Collector of taxes' office | 1879 | 15,500 00 | 20 | 208,416 |
| Do | 1880 | 13,800 00 | 20 | 405 |
| Do | 1881 | 11,500 00 | 21 | 158 |
| Do | 1882 | 10,000 00 | 21 | 461 |
| Do | 1883 | 13,000 00 | 22 | 138 |
| Do | 1884 | *17,300 00 | 22 | 462 |
| Do | 1885 | *17,300 00 | 23 | 123 |
| Do | 1886 | *17,300 00 | 23 | 311 |
| Do | 1887 | *19,200 00 | 24 | 130 |
| Colored Women and Children, National Association for relief of .. | 1879 | 5,000 00 | 20 | 208,416 |
| Do | 1880 | 6,500 00 | 20 | 404 |
| Do | 1881 | 6,500 00 | 21 | 157 |
| Do | 1882 | 6,500 00 | 21 | 460 |
| Do | 1883 | 6,500 00 | 22 | 137 |
| Do. (building) | 1884 | 7,000 00 | 22 | 465 |
| Do | 1884 | 20,000 00 | 22 | 465 |
| Do. (furniture and heating) | 1885 | 7,000 00 | 23 | 126 |
| Do | 1885 | 2,000 00 | 23 | 126 |

* Includes special-assessment clerk.

Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|---|-------|-------------|------|----------|
| Colored Women and Children, National Association for relief of... | 1886 | \$8,500 00 | 23 | 314 |
| Do. (building)..... | 1886 | 18,000 00 | 23 | 315 |
| Do. | 1887 | 6,500 00 | 24 | 183 |
| Do. (furniture)..... | 1887 | 2,500 00 | 24 | 183 |
| Columbia Hospital for Women | 1879 | 12,000 00 | 20 | 208, 416 |
| Do. | 1880 | 12,000 00 | 20 | 404 |
| Do. | 1881 | 15,000 00 | 21 | 157 |
| Do. (cottages)..... | 1881 | 3,000 00 | 21 | 157 |
| Do. | 1882 | 15,000 00 | 21 | 459 |
| Do. (furnishing cottages)..... | 1882 | 800 00 | 21 | 459 |
| Do. | 1883 | 15,000 00 | 22 | 137 |
| Do. | 1884 | 15,000 00 | 22 | 465 |
| Do. (arrears of taxes)..... | 1884 | 5,320 53 | 23 | 253 |
| Do. | 1885 | 15,000 00 | 23 | 126 |
| Do. | 1886 | 15,000 00 | 23 | 314 |
| Do. | 1887 | 15,000 00 | 24 | 133 |
| Connelly, John, relief of..... | 1884 | 91 80 | 23 | 531 |
| Contingent expenses (general)..... | 1880 | 20,000 00 | 20 | 410 |
| Do. | 1881 | 20,000 00 | 21 | 162 |
| Do. | 1882 | 15,000 00 | 21 | 466 |
| Do. | 1883 | 10,000 00 | 22 | 143 |
| Do. | 1884 | 10,000 00 | 22 | 469 |
| Do. | 1885 | 5,000 00 | 23 | 131 |
| Do. | 1886 | 5,000 00 | 23 | 319 |
| Do. | 1887 | 5,000 00 | 24 | 137 |
| Coroner's office..... | 1879 | 2,500 00 | 20 | 208, 416 |
| Do. | 1880 | 2,500 00 | 20 | 405 |
| Do. (deficiency)..... | 1880 | 748 00 | 21 | 253 |
| Do. | 1881 | 2,450 00 | 21 | 158 |
| Do. (deficiency)..... | 1881 | 96 00 | 22 | 591 |
| Do. | 1882 | 2,500 00 | 21 | 461 |
| Do. | 1883 | 2,500 00 | 22 | 138 |
| Do. | 1884 | 2,500 00 | 22 | 463 |
| Do. | 1885 | 2,500 00 | 23 | 124 |
| Do. | 1886 | 2,500 00 | 23 | 312 |
| Do. | 1887 | 2,500 00 | 24 | 131 |
| Courts..... | 1879 | 18,500 00 | 20 | 208, 416 |
| Do. | 1880 | 18,500 00 | 20 | 409 |
| Do. (deficiency)..... | 1880 | 3,500 00 | 21 | 253 |
| Do. | 1881 | 16,818 00 | 21 | 161 |
| Do. | 1882 | 16,818 00 | 21 | 463 |
| Do. | 1883 | 15,418 00 | 22 | 141 |
| Do. (deficiency)..... | 1883 | 15 00 | 24 | 264 |
| Do. (deficiency)..... | 1883 | 311 00 | 23 | 252 |
| Do. (deficiency)..... | 1883 | 400 00 | 22 | 586 |
| Do. (deficiency)..... | 1884 | 15,418 00 | 22 | 467 |
| Do. | 1884 | 49 45 | 23 | 455 |
| Do. (deficiency)..... | 1884 | 6,500 00 | 23 | 253 |
| Do. (deficiency)..... | 1884 | 32 50 | 23 | 455 |
| Do. (deficiency)..... | 1885 | 16,218 00 | 23 | 129 |
| Do. | 1886 | 16,218 00 | 23 | 317 |
| Do. | 1886 | 1,000 00 | 24 | 264 |
| Do. (deficiency)..... | 1887 | 16,218 00 | 24 | 135 |
| Damages..... | 1879 | ..... | 20 | 208, 416 |
| Do. | 1880 | ..... | 20 | 409 |
| Do. | 1881 | ..... | 21 | 162 |
| Do. | 1882 | ..... | 21 | 465 |
| Do. | 1882 | ..... | 22 | 273 |
| Do. (deficiency)..... | 1883 | ..... | 22 | 142 |
| Do. | 1883 | 1,000 00 | 22 | 143 |
| Do. (Boundary sewer)..... | 1884 | ..... | 22 | 469 |
| Do. | 1885 | ..... | 23 | 130 |
| Do. | 1886 | ..... | 23 | 318 |
| Do. | 1887 | ..... | 24 | 137 |
| Darby, Rezin..... | 1885 | 1,658. 61 | 23 | 128 |
| Deficiency, general..... | 1879 | *466,533 23 | 20 | 208, 416 |
| Do. | 1882 | †50,000 00 | 22 | 274 |
| Disallowances on account of salaries..... | 1883 | ..... | 22 | 586 |
| District offices, rent of..... | 1879 | 6,000 00 | 20 | 208, 416 |
| Do. | 1880 | 6,000 00 | 20 | 409 |
| Do. | 1881 | 3,600 00 | 21 | 162 |
| Do. | 1882 | 3,600 00 | 21 | 465 |
| Do. | 1883 | 3,600 00 | 22 | 142 |
| Do. | 1884 | 3,600 00 | 22 | 130 |
| Do. | 1885 | 3,600 00 | 23 | 318 |
| Do. | 1886 | 3,600 00 | 23 | 136 |
| Do. | 1887 | 3,600 00 | 24 | 466 |
| Drawbacks allowed..... | 1882 | ..... | 21 | 144 |
| Do. | 1883 | ..... | 22 | 471 |
| Do. | 1884 | ..... | 22 | 471 |

*In addition to \$1,250,000—vol. 20, p. 208.

†Transfer of credit from surplus of 1883 to 1882.

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Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|--|-------|-------------|-------|----------|
| Drawbacks allowed | 1885 | ..... | 23 | 132 |
| Do | 1886 | ..... | 23 | 318 |
| Do | 1887 | ..... | 24 | 138 |
| Electric lights | 1887 | \$10,000 00 | 24 | 134 |
| Engineer's office: * | | | | |
| Do | 1879 | 78,646 00 | 20 | 208, 416 |
| Do. (superintendent of lamps) | 1879 | 800 00 | 20 | 208, 416 |
| Do | 1880 | 74,240 00 | 20 | 406 |
| Do. (superintendent of lamps) | 1880 | 800 00 | 20 | 409 |
| Do | 1881 | 61,651 00 | 21 | 139 |
| Do. (superintendent of lamps) | 1881 | 900 00 | 21 | 159 |
| Do. (deficiency) | 1881 | 6 00 | 23 | 251 |
| Do | 1882 | 61,825 00 | 21 | 461 |
| Do. (superintendent of lamps) | 1882 | 900 00 | 21 | 462 |
| Do. (deficiency) | 1882 | 3 00 | 22 | 591 |
| Do | 1883 | 59,525 00 | 22 | 138 |
| Do. (superintendent of lamps) | 1883 | 900 00 | 23 | 282 |
| Do. (deficiency) | 1883 | 17 00 | 23 | 139 |
| Do | 1884 | 56,650 00 | 22 | 463 |
| Do. (deficiency) | 1884 | 4 10 | 24 | 263 |
| Do | 1885 | 59,950 00 | 23 | 124 |
| Do. (deficiency) | 1885 | 1 15 | 24 | 263 |
| Do | 1886 | 60,890 00 | 23 | 312 |
| Do | 1887 | 60,890 00 | 24 | 131 |
| Executive office | 1879 | 21,000 00 | 20 | 208, 416 |
| Do. (deficiency) | 1879 | 1 27 | 22 | 272 |
| Do | 1880 | 21,000 00 | 20 | 404 |
| Do. (deficiency) | 1880 | 18 70 | 22 | 272 |
| Do | 1881 | 20,040 00 | 21 | 157 |
| Do. (deficiency) | 1881 | 1,667 11 | 22 | 273 |
| Do | 1882 | 20,040 00 | 21 | 460 |
| Do. (deficiency) | 1882 | 341 71 | 23 | 454 |
| Do | 1882 | 28 93 | 22 | 591 |
| Do | 1883 | 21,240 11 | 22 | 137 |
| Do. (deficiency) | 1884 | 21,141 50 | 22 | 462 |
| Do | 1884 | 40 00 | 24 | 263 |
| Do | 1885 | 21,244 00 | 23 | 123 |
| Do | 1886 | 21,244 00 | 23 | 311 |
| Do | 1887 | 22,444 00 | 24 | 130 |
| Expenses, general. (This was title to appropriation for 1879, which was made in bulk twice, viz: \$1,250,000, \$466,533.23; also for \$50,000 in 1882. This disbursement was regulated by the approved estimates, 1879-'80.) | | | | |
| Fire department | | | | |
| Do | 1879 | 151,800 00 | 20 | 208, 416 |
| Do. (deficiencies) | 1880 | 105,700 00 | 20 | 408 |
| Do | 1880 | 416 38 | ..... | ..... |
| Do. (deficiencies) | 1881 | 104,240 00 | 21 | 161 |
| Do. (deficiency) | 1881 | 14 00 | ..... | ..... |
| Do | 1881 | 742 00 | ..... | ..... |
| Do. (deficiencies) | 1882 | 102,240 00 | 21 | 463 |
| Do | 1882 | 4,212 41 | ..... | ..... |
| Do. (deficiencies) | 1883 | 99,140 00 | 22 | 140 |
| Do | 1883 | 589 35 | ..... | ..... |
| Do. (deficiencies) | 1884 | 101,060 00 | 22 | 467 |
| Do | 1884 | 1,203 97 | ..... | ..... |
| Do | 1885 | 120,888 00 | 23 | 128 |
| Do | 1886 | 108,150 00 | 23 | 316 |
| Do | 1887 | 116,420 00 | 24 | 135 |
| Detailed as follows: Apparatus, new; Apparatus, repairs; Buildings, new; Buildings, repairs; Contingent expenses; Forage; Fuel; Horses; Hose; Lots; Salaries. | | | | |
| Apparatus, new: | | | | |
| Engine No. 1 | 1879 | \$3,200 00 | 20 | 208, 416 |
| Engine No. 2 | 1879 | \$3,400 00 | 20 | 208, 416 |
| Truck A | 1879 | \$1,749 00 | 20 | 208, 416 |
| Exchange No. 4 for No. 4, Silsby | 1880 | (†) | ..... | ..... |
| Exchange No. 5 for No. 5 | 1884 | 3,000 00 | 22 | 467 |
| Exchange No. 3 for No. 3 | 1885 | ..... | ..... | ..... |
| Exchange No. 1 | 1885 | 9,000 00 | 23 | 128 |
| Exchange No. 2 | 1885 | ..... | ..... | ..... |
| New, No. 1 | 1885 | ..... | ..... | ..... |
| Apparatus repairs | 1887 | 4,500 00 | 24 | 135 |
| Do | 1879 | 7,000 00 | 20 | 208, 416 |
| Do | 1880 | 5,000 00 | 20 | 409 |
| Do. (including repair of truck) | 1881 | 3,500 00 | 21 | 161 |
| Do | 1882 | 5,000 00 | 21 | 463 |

* Exclusive of market-masters, markets, and rent of property yards.

† Included in appropriation of \$48,000.

‡ See contingent expenses.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 99

Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|--|-------|------------|------|---------|
| Fire department—Continued. | | | | |
| Apparatus (deficiency) | 1882 | \$149 00 | 23 | 251 |
| Do. | 1882 | 531 25 | 22 | 273 |
| Do. | 1883 | 4,000 00 | 22 | 140 |
| Do. | 1884 | 4,000 00 | 22 | 467 |
| Do. | 1885 | 4,000 00 | 23 | 128 |
| Do. | 1886 | 4,000 00 | 23 | 316 |
| Do. (including hose) | 1887 | 6,000 00 | 24 | 135 |
| Buildings, new: | | | | |
| Trucks A and B | 1879 | †34,389 00 | 20 | 208,416 |
| Engine Company No. 5, proceeds of lots | 1882 | | 21 | 467 |
| Engine Company No. 5, Town Hall | 1884 | 3,000 00 | 22 | 467 |
| Engine Company No. 5, in lieu of lots | 1885 | 1,658 61 | 23 | 129 |
| Engine Company No. 7 | 1885 | 10,000 00 | 23 | 128 |
| Buildings, repairs: | | | | |
| Do. | 1879 | 1,000 00 | 20 | 208,416 |
| Do. | 1880 | 1,000 00 | 20 | 409 |
| Do. (deficiency) | 1880 | 16 38 | 22 | 272 |
| Do. | 1881 | 1,000 00 | 21 | 161 |
| Do. | 1882 | 1,000 00 | 21 | 463 |
| Do. | 1883 | 1,500 00 | 22 | 140 |
| Do. | 1884 | 500 00 | 22 | 467 |
| Do. | 1885 | 750 00 | 23 | 128 |
| Do. | 1886 | 1,000 00 | 23 | 316 |
| Do. | 1887 | 3,000 00 | 24 | 135 |
| Forage: | | | | |
| Do. | 1879 | (†) | | |
| Do. | 1880 | (†) | | |
| Do. | 1881 | (†) | | |
| Do. | 1882 | 4,500 00 | 21 | 463 |
| Do. (deficiency) | 1882 | 2,082 26 | 22 | 273 |
| Do. | 1883 | 7,000 00 | 22 | 140 |
| Do. | 1884 | 5,500 00 | 22 | 467 |
| Do. | 1885 | 6,000 00 | 23 | 128 |
| Do. | 1886 | 5,500 00 | 23 | 316 |
| Do. | 1887 | 5,500 00 | 24 | 135 |
| Fuel: | | | | |
| Do. | 1879 | 500 00 | 20 | 208,416 |
| Do. | 1880 | 500 00 | 20 | 409 |
| Do. | 1881 | 1,000 00 | 21 | 161 |
| Do. | 1882 | 1,500 00 | 21 | 463 |
| Do. (deficiency) | 1882 | 319 75 | 22 | 273 |
| Do. | 1883 | 1,500 00 | 22 | 140 |
| Do. | 1884 | 2,000 00 | 22 | 467 |
| Do. | 1885 | 2,000 00 | 23 | 128 |
| Do. | 1886 | 2,000 00 | 23 | 316 |
| Do. | 1887 | 2,000 00 | 24 | 134 |
| Horses: | | | | |
| Do. | 1879 | 2,500 00 | 20 | 208,416 |
| Do. | 1880 | 2,000 00 | 20 | 409 |
| Do. | 1881 | 2,000 00 | 21 | 161 |
| Do. (deficiency) | 1881 | 14 00 | 23 | 251 |
| Do. | 1882 | 2,900 00 | 21 | 463 |
| Do. | 1883 | 2,000 00 | 22 | 140 |
| Do. | 1884 | 2,000 00 | 22 | 467 |
| Do. | 1885 | 2,500 00 | 23 | 128 |
| Do. | 1886 | 2,500 00 | 23 | 316 |
| Do. | 1887 | 2,500 00 | 24 | 134 |
| Hose: | | | | |
| Do. | 1879 | + | | |
| Do. | 1880 | + | | |
| Do. | 1881 | + | | |
| Do. | 1882 | 2,500 00 | 21 | 463 |
| Do. | 1883 | 2,500 00 | 22 | 140 |
| Do. | 1884 | 2,000 00 | 22 | 467 |
| Do. | 1885 | 2,000 00 | 23 | 128 |
| Do. | 1886 | 2,250 00 | 23 | 316 |
| Do. | 1887 | \$ | 24 | 134 |
| Lots: | | | | |
| Truck A | 1879 | 1,562 00 | 20 | 208,416 |
| Truck B | 1879 | 2,500 00 | 20 | 208,416 |
| Company No. 5. (See Buildings) | 1882 | | 21 | 467 |
| Do. (See Buildings) | 1885 | | 23 | 128 |
| Salaries: | | | | |
| Do. | 1879 | ‡68,160 00 | 20 | 208,416 |
| Do. | 1880 | ‡71,780 00 | 20 | 408 |
| Do. | 1880 | ‡400 00 | 21 | 253 |
| Do. (deficiency) | 1881 | ‡76,740 00 | 21 | 161 |
| Do. | 1882 | ‡75,740 00 | 21 | 463 |
| Do. | 1883 | 72,140 00 | 22 | 140 |

† Included in Contingent expenses for three years.

‡ Included in Salaries, &c.

§ Included in Apparatus and repairs.

|| Including Telegraph and Telephone service, horse, and forage.

¶ Including Telegraph and Telephone service.

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Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|---|-------|----------------|------|----------|
| Fire Department—Continued. | | | | |
| Salaries..... | 1884 | \$72,060 00 | 22 | 467 |
| Do..... | 1885 | 75,480 00 | 23 | 126 |
| Do..... | 1886 | 83,400 00 | 23 | 318 |
| Do..... | 1887 | 85,420 00 | 24 | 135 |
| Contingent expenses..... | 1879 | 27,810 00 | 20 | 208, 416 |
| Do. (including \$1,250 for exchanging Silsby Engine, No. 4.)..... | 1880 | 25,420 00 | 20 | 409 |
| Do..... | 1881 | 20,000 00 | 21 | 161 |
| Do. (deficiency)..... | 1881 | 14 00 | 23 | 251 |
| Do. (deficiency)..... | 1881 | 742 94 | 22 | 272 |
| Do..... | 1882 | 10,000 00 | 21 | 463 |
| Do. (deficiency)..... | 1882 | 165 66 | 22 | 501 |
| Do. (deficiency)..... | 1882 | 149 00 | 23 | 251 |
| Do. (deficiency)..... | 1882 | 97 75 | 23 | 251 |
| Do. (deficiency)..... | 1882 | 866 74 | 22 | 273 |
| Do..... | 1883 | 8,500 00 | 22 | 140 |
| Do. (deficiency)..... | 1883 | 589 35 | 23 | 252 |
| Do..... | 1884 | 7,000 00 | 22 | 467 |
| Do. (deficiency)..... | 1884 | 1,200 00 | 23 | 253 |
| Do. (deficiency)..... | 1884 | 3 97 | 23 | 455 |
| Do..... | 1885 | 7,500 00 | 23 | 128 |
| Do..... | 1886 | 7,500 00 | 23 | 316 |
| Do..... | 1887 | 7,500 00 | 24 | 135 |
| Fire-escapes in schools..... | 1883 | 10,000 00 | 22 | 142 |
| Foundlings, Washington Hospital (for building)..... | 1887 | 3,500 00 | 24 | 133 |
| Fourteenth-street road..... | 1883 | 6,000 00 | 22 | 136 |
| Fuel, ice, gas, &c..... | 1879 | 3,000 00 | 20 | 208, 416 |
| Do..... | 1880 | 3,000 00 | 20 | 407 |
| Do..... | 1881 | 3,500 00 | 21 | 159 |
| Do. (deficiency)..... | 1882 | 3,500 00 | 21 | 462 |
| Do. (deficiency)..... | 1882 | 47 77 | 22 | 501 |
| Do..... | 1882 | 22 05 | 23 | 251 |
| Do. (deficiency)..... | 1883 | 3,500 00 | 22 | 139 |
| Do..... | 1883 | 354 97 | 23 | 252 |
| Do. (deficiency)..... | 1884 | 5,000 00 | 22 | 463 |
| Do..... | 1884 | 64 88 | 23 | 454 |
| Do. (deficiency)..... | 1885 | 5,000 00 | 23 | 125 |
| Do..... | 1885 | 262 35 | 24 | 263 |
| Do..... | 1886 | 5,000 00 | 23 | 312 |
| Do..... | 1887 | 5,000 00 | 24 | 151 |
| Furniture. (See Contingent expenses of schools.) | | | | |
| Garbage, removal of..... | | | | |
| Do..... | 1879 | 11,706 00 | 20 | 208, 416 |
| Do. (deficiency)..... | 1880 | 10,355 00 | 20 | 400 |
| Do..... | 1880 | 219 30 | 21 | 233 |
| Do..... | 1881 | 10,365 00 | 21 | 159 |
| Do..... | 1882 | 15,000 00 | 21 | 465 |
| Do..... | 1883 | 13,000 00 | 22 | 143 |
| Do..... | 1884 | 15,000 00 | 22 | 469 |
| Do..... | 1885 | 15,000 00 | 23 | 130 |
| Do..... | 1886 | 15,000 00 | 23 | 318 |
| Gas governors (deficiency)..... | 1887 | 13,000 00 | 24 | 137 |
| Gas and meters, inspector of..... | | | | |
| Do..... | 1882 | 500 00 | 22 | 273 |
| Do..... | 1879 | 3,000 00 | 20 | 208, 416 |
| Do..... | 1880 | 3,000 00 | 20 | 406 |
| Do..... | 1881 | 3,000 00 | 21 | 158 |
| Do..... | 1882 | 3,000 00 | 21 | 461 |
| Do..... | 1883 | 2,000 00 | 22 | 138 |
| Do..... | 1884 | 2,000 00 | 22 | 463 |
| Do., laboratory expenses..... | 1885 | 2,000 00 | 23 | 124 |
| Do., laboratory expenses (deficiency)..... | 1885 | 600 00 | 23 | 124 |
| Do., laboratory expenses..... | 1885 | 1 15 | 24 | 263 |
| Do., inspector of..... | 1886 | 2,000 00 | 23 | 312 |
| Do., laboratory expenses..... | 1886 | 800 00 | 23 | 312 |
| Do., superintendent of..... | 1887 | 2,000 00 | 24 | 131 |
| Do..... | 1887 | 800 00 | 24 | 131 |
| General expenses. (See Expenses, general.) | | | | |
| Do..... | 1884 | | 22 | 463 |
| Do. (deficiency)..... | 1879 | \$1,250,000 00 | 20 | 208 |
| Do. (deficiency)..... | 1879 | 466,533 23 | 20 | 416 |
| Do..... | 1882 | 50,000 00 | 22 | 274 |
| Do..... | 1882 | 4,950 00 | 22 | 501 |
| German Orphan Asylum: | | | | |
| Purchase of property..... | 1881 | 10,000 00 | 21 | 157 |
| Building..... | 1883 | 5,000 00 | 22 | 137 |
| Do..... | 1884 | | 22 | 465 |
| Do..... | 1885 | | 23 | 126 |
| Good Shepherd, House of (building)..... | 1887 | 5,000 00 | 24 | 133 |

* See items.

† See estimates for details.

‡ Appropriation for 1883 continued.

§ Appropriation for 1883 made usable at discretion of directors.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 101

Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|---|-------|--------------|------|----------|
| Government Printing Office: | | | | |
| Water supply to | 1883 | \$5,600 00 | 22 | 143 |
| Do | 1884 | 3,500 00 | 22 | 470 |
| Harbor-master | 1879 | 80 00 | 20 | 298, 416 |
| Do | 1880 | 80 00 | 20 | 406 |
| Do | 1881 | 80 00 | 21 | 158 |
| Do | 1882 | 80 00 | 21 | 461 |
| Do | 1883 | 80 00 | 22 | 138 |
| Do | 1884 | 1,200 00 | 22 | 465 |
| Do | 1885 | 1,200 00 | 23 | 124 |
| Do | 1886 | 1,200 00 | 23 | 312 |
| Do | 1887 | 1,200 00 | 24 | 131 |
| Hay scales | 1879 | 200 00 | 20 | 208, 416 |
| Do | 1880 | 200 00 | 20 | 409 |
| Do | 1881 | 200 00 | 21 | 162 |
| Do | 1882 | 500 00 | 21 | 465 |
| Do | 1883 | 500 00 | 22 | 142 |
| Do | 1884 | 500 00 | 22 | 469 |
| Do | 1885 | 500 00 | 23 | 130 |
| Do | 1886 | 500 00 | 23 | 313 |
| Do | 1887 | 500 00 | 24 | 136 |
| Health office | 1879 | 22,000 00 | 20 | 208, 416 |
| Do | 1880 | 24,400 00 | 20 | 410 |
| Do. (deficiency) | 1880 | 2,084 34 | 21 | 253 |
| Do | 1881 | 25,200 00 | 21 | 162 |
| Do. (deficiency) | 1881 | 143 00 | 22 | 273 |
| Do | 1882 | 26,140 00 | 21 | 465 |
| Do. (deficiency) | 1882 | 490 00 | 22 | 273 |
| Do. (deficiency) | 1882 | 130 27 | 22 | 591 |
| Do | 1883 | 27,580 00 | 22 | 143 |
| Do | 1884 | 27,780 00 | 22 | 469 |
| Do | 1885 | 20,180 00 | 23 | 130 |
| Do | 1886 | 28,530 00 | 23 | 318 |
| Do | 1887 | 27,280 00 | 24 | 137 |
| Holmes Cemetery (square 109), removal of bodies from | 1879 | | 20 | 353 |
| Do | 1881 | 2,000 00 | 21 | 162 |
| Do | 1882 | 1,000 00 | 21 | 465 |
| Do | 1885 | 5,136 23 | 23 | 455 |
| Do. (sale of) | | | 20 | 358 |
| Do. (sale of) | | | 23 | 130 |
| Homeopathic Hospital building | 1886 | 15,000 00 | 23 | 315 |
| Do | 1887 | 5,000 00 | 24 | 134 |
| Hospital, pest | 1886 | 600 00 | 23 | 318 |
| House of Good Shepherd building | 1887 | 5,000 00 | 24 | 133 |
| Howard University | 1880 | 10,000 00 | 20 | 404 |
| Improvement, repairs, &c., of streets, &c. (See Roads, Streets, and Sewers.) | | | | |
| Inaugural ceremonies of 1885, for keeping order during | 1885 | 8,000 00 | 23 | 303 |
| Industrial Home School | 1879 | 5,000 00 | 20 | 208, 416 |
| Do | 1880 | 5,000 00 | 20 | 404 |
| Do | 1881 | 10,000 00 | 21 | 157 |
| Do | 1882 | 5,000 00 | 21 | 460 |
| Do. (building) | 1882 | 5,000 00 | 21 | 460 |
| Do | 1883 | 5,000 00 | 22 | 137 |
| Do | 1884 | 10,000 00 | 22 | 465 |
| Do | 1885 | 12,500 00 | 23 | 126 |
| Do | 1886 | 12,000 00 | 23 | 315 |
| Do. (building) | 1887 | 5,500 00 | 24 | 133 |
| Insane, Government Hospital for | 1879 | 17,000 00 | 20 | 208, 416 |
| Do | 1880 | | 20 | 395 |
| Do | 1880 | 17,000 00 | 20 | 404 |
| Do | 1881 | 37,000 00 | 21 | 156 |
| Do | 1882 | 40,000 00 | 21 | 450 |
| Do | 1882 | 5,198 13 | 22 | 264 |
| Do. (deficiency) | 1883 | 43,200 00 | 22 | 146 |
| Do | 1884 | 46,700 00 | 22 | 436 |
| Do | 1885 | 50,436 00 | 23 | 126 |
| Do | 1886 | 53,462 00 | 23 | 314 |
| Do | 1887 | 75,132 00 | 24 | 133 |
| Inspectors on improvements. (See all annual appropriations for District of Columbia.) | | | | |
| Insurance. (See Fuel, ice, gas, &c.) | | | 20 | 410 |
| Interest and sinking fund on 3.65 bonds, permanent provision for | 1879 | 1,018,965 70 | 20 | 208, 416 |
| Interest and sinking fund | 1880 | 1,155,583 55 | 20 | 410 |
| Do | 1880 | 90 00 | 21 | 253 |
| Do. (deficiency) | 1881 | 1,155,583 55 | 21 | 162 |
| Do | 1881 | 162,169 93 | 21 | 322 |
| Do. (deficiency) | 1882 | 1,213,947 97 | 21 | 466 |
| Do | | | | |

* This was paid out of contingent fund of public schools, \$3,000 of which was refunded by deficiency appropriation. (See Eng. Rep. 1885, p. 272.)

† Exclusive of interest and sinking fund on water-stock bonds.

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Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object | Year. | Amount | Vol. | Page. |
|---|-------|----------------|------|---------|
| Interest and sinking fund | 1883 | \$1,213,947 97 | 22 | 143 |
| Do. (for water-stock bonds) | 1883 | 44,610 00 | 22 | 144 |
| Do. | 1884 | 1,213,947 97 | 22 | 469 |
| Do. (for water-stock bonds) | 1884 | 44,610 00 | 22 | 470 |
| Do. | 1885 | 1,213,947 97 | 23 | 130 |
| Do. (for water-stock bonds) | 1885 | 44,610 00 | 23 | 131 |
| Do. (account increase water supply) | 1885 | 30,000 00 | 23 | 132 |
| Do. | 1886 | 1,213,947 97 | 23 | 319 |
| Do. (for water-stock bonds) | 1886 | 44,610 00 | 23 | 319 |
| Do. (account increase water supply) | 1886 | 55,047 27 | 23 | 319 |
| Do. | 1887 | 1,213,947 97 | 24 | 137 |
| Do. (fund for water-stock bonds) | 1887 | 44,610 00 | 24 | 137 |
| Do. (account increase water supply*) | 1887 | 57,239 02 | 24 | 137 |
| Judgments | 1879 | 25,000 00 | 20 | 208,416 |
| Do. (deficiency) | 1880 | 49,000 00 | 21 | 253 |
| Do. | 1881 | 2,704 20 | 21 | 162 |
| Do. | 1882 | 15,000 00 | 21 | 466 |
| Do. (deficiency) | 1883 | 25,000 00 | 22 | 143 |
| Do. (deficiency) | 1883 | 21,234 82 | 23 | 252 |
| Do. | 1885 | 2,214 41 | 23 | 455 |
| Do. | 1886 | 16,762 73 | 24 | 204 |
| Judicial expenses | 1879 | 2,500 00 | 20 | 208,416 |
| Do. (deficiency) | 1879 | 25 80 | 22 | 272 |
| Do. | 1880 | 2,500 00 | 20 | 409 |
| Do. (deficiency) | 1880 | 3,500 00 | 21 | 253 |
| Do. | 1881 | 2,500 00 | 21 | 161 |
| Do. | 1882 | 2,500 00 | 21 | 463 |
| Do. | 1883 | 2,500 00 | 22 | 141 |
| Do. (deficiency) | 1884 | 2,500 00 | 22 | 468 |
| Do. | 1884 | 6,500 00 | 23 | 253 |
| Do. (deficiency) | 1885 | 2,500 00 | 23 | 129 |
| Do. (deficiency) | 1885 | 15 00 | 24 | 264 |
| Do. | 1885 | 1,000 00 | 24 | 261 |
| Do. | 1886 | 2,500 00 | 23 | 317 |
| Do. | 1887 | 2,500 00 | 24 | 264 |
| Kane, John, medical attendance to (deficiency) | 1882 | | 23 | 251 |
| Lamps lighting, repairs, &c. | 1879 | 130,000 00 | 20 | 208,416 |
| Do. | 1880 | 130,370 00 | 20 | 409 |
| Do. | 1881 | 123,400 00 | 21 | 159 |
| Do. (deficiency) | 1882 | 105,225 00 | 21 | 462 |
| Do. | 1882 | 2,689 25 | 22 | 591 |
| Do. | 1883 | 107,650 00 | 22 | 129 |
| Do. | 1884 | 96,280 00 | 22 | 466 |
| Do. | 1885 | 96,280 00 | 23 | 127 |
| Do. | 1886 | 100,900 00 | 23 | 315 |
| Do. | 1887 | † 100,900 00 | 24 | 134 |
| Lamps, superintendent of, may draw salaries for both United States and District of Columbia | 1882 | | 21 | 469 |
| Laws of District of Columbia, revision of | 1880 | 5,000 00 | 20 | 405 |
| Linthicum loan | 1882 | 40,000 00 | 21 | 466 |
| Linthicum loan, interest on | 1881 | 2,400 00 | 21 | 160 |
| Little Sisters of the Poor | 1881 | 5,000 00 | 21 | 157 |
| Do. (building) | 1885 | 25,000 00 | 23 | 222 |
| MacNichol, Frank (deficiency) | 1882 | 50 00 | 23 | 251 |
| Map of suburban property, District of Columbia | 1881 | 3,000 00 | 21 | 188 |
| Macadam roadways | 1882 | 5,000 00 | 21 | 458 |
| Do. | 1883 | 5,000 00 | 22 | 135 |
| Markets (exclusive of salaries of market-masters) | 1879 | 5,425 00 | 20 | 208,416 |
| Do. | 1880 | 5,725 00 | 20 | 409 |
| Do. | 1881 | 5,425 00 | 21 | 161 |
| Do. repair of Georgetown market | 1882 | 1,500 00 | 21 | 465 |
| Do. | 1882 | 3,000 00 | 21 | 465 |
| Do. | 1883 | 1,500 00 | 22 | 142 |
| Do. (deficiency) | 1884 | | 22 | 463 |
| Do. | 1884 | | 23 | 454 |
| Do. (deficiency) | 1885 | | 23 | 125 |
| Do. | 1885 | | 24 | 263 |
| Do. | 1886 | | 23 | 312 |
| Market-masters | 1887 | | 24 | 131 |
| Do. | 1879 | 4,950 00 | 20 | 208,416 |
| Do. | 1880 | 4,950 00 | 20 | 409 |
| Do. | 1881 | 4,950 00 | 21 | 161 |
| Do. | 1882 | 5,400 00 | 21 | 465 |
| Do. | 1883 | 5,400 00 | 22 | 142 |
| Do. | 1884 | 4,500 00 | 22 | 463 |
| Do. | 1885 | 4,500 00 | 23 | 124 |
| Do. | 1886 | 4,500 00 | 23 | 312 |
| Do. | 1887 | 4,500 00 | 24 | 131 |

* Exclusive of interest and sinking fund on water stock bonds.

† \$10,000 usable for electric lights.

‡ Included in Fuel, ice, gas, &c., after 1883.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 103

Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|--|-------|------------|------|----------|
| Marshal, (United States) fees..... | 1879 | \$2,316 00 | 20 | 208, 416 |
| Do..... | 1880 | 2,316 00 | 20 | 409 |
| Do..... | 1881 | 2,500 00 | 21 | 161 |
| Do..... | 1882 | 2,500 00 | 21 | 463 |
| Do..... | 1883 | 2,000 00 | 22 | 141 |
| Do (deficiency)..... | 1883 | 311 00 | 23 | 252 |
| Do..... | 1884 | 1,400 00 | 23 | 467 |
| Do. (deficiency)..... | 1884 | 32 50 | 23 | 455 |
| Do..... | 1885 | 1,400 00 | 23 | 129 |
| Do..... | 1886 | 1,400 00 | 23 | 317 |
| Do..... | 1887 | 1,400 00 | 24 | 135 |
| Mercy, Association for Works of. (See Association &c.) | | | | |
| Miscellaneous expenses: Exclusive of markets and market masters | 1879 | 19,064 00 | 20 | 208, 416 |
| Do..... | 1880 | 20,000 00 | 20 | 409 |
| Do..... | 1881 | 60,800 00 | 21 | 162 |
| Do..... | 1882 | 13,100 00 | 21 | 465 |
| Do. (deficiency)..... | 1882 | 25 00 | 23 | 454 |
| Do. (deficiency)..... | 1882 | 1,500 00 | 22 | 273 |
| Do..... | 1883 | 12,100 00 | 22 | 142 |
| Do..... | 1884 | 10,600 00 | 22 | 469 |
| Do..... | 1885 | 10,600 00 | 23 | 130 |
| Do. (deficiency)..... | 1885 | 1,009 30 | 24 | 264 |
| Do..... | 1886 | 10,600 00 | 23 | 318 |
| Do..... | 1887 | 9,600 00 | 24 | 136 |
| National Association for Relief of Colored Women and Children. (See Colored Women, &c.) | | | | |
| National Homeopathic Hospital (See Homeopathic Hospital) | | | | |
| Night schools. (See Salaries of schools.) | | | | |
| O'Brien M.T. (deficiency)..... | 1882 | 50 00 | 23 | 251 |
| Office, District, rent of. (See District offices) | | | | |
| Old record division..... | 1881 | 2,100 00 | 21 | 157 |
| Do..... | 1882 | 2,100 00 | 21 | 460 |
| Parking Commission | 1879 | 15,600 00 | 20 | 208, 416 |
| Do..... | 1880 | 15,300 00 | 20 | 409 |
| Do..... | 1881 | 15,320 00 | 21 | 159 |
| Do..... | 1882 | 19,900 00 | 21 | 462 |
| Do..... | 1883 | 19,900 00 | 22 | 150 |
| Do..... | 1884 | 18,000 00 | 22 | 466 |
| Do..... | 1885 | 18,000 00 | 23 | 127 |
| Do..... | 1886 | 18,000 00 | 23 | 315 |
| Do..... | 1887 | 18,000 00 | 24 | 134 |
| Paupers, transportation of..... | 1879 | 2,500 00 | 20 | 208, 416 |
| Do..... | 1880 | 2,500 00 | 20 | 404 |
| Do..... | 1881 | 3,500 00 | 21 | 156 |
| Do. (deficiency)..... | 1881 | 95 | 22 | 273 |
| Do..... | 1882 | 3,000 00 | 21 | 459 |
| Do. (deficiency)..... | 1882 | 72 49 | 22 | 591 |
| Do..... | 1883 | 3,000 00 | 22 | 136 |
| Do..... | 1884 | 3,000 00 | 22 | 464 |
| Do..... | 1885 | 3,000 00 | 23 | 126 |
| Do..... | 1886 | 4,000 00 | 23 | 314 |
| Do..... | 1887 | 4,000 00 | 24 | 133 |
| Pavements, concrete: Repairs of..... | 1879 | 18,500 00 | 20 | 208, 416 |
| Do..... | 1880 | 100,000 00 | 20 | 403 |
| Do..... | 1881 | 75,000 00 | 21 | 155 |
| Do..... | 1882 | 50,000 00 | 21 | 458 |
| Do..... | 1883 | 50,000 00 | 22 | 135 |
| Do..... | 1884 | 50,000 00 | 22 | 464 |
| Do..... | 1885 | 50,000 00 | 23 | 125 |
| Do. (deficiency)..... | 1885 | 23 10 | 24 | 264 |
| Do..... | 1886 | 50,000 00 | 23 | 313 |
| Do..... | 1887 | 65,000 00 | 24 | 132 |
| Pavements, replacement of, and work on sundry avenues and streets | 1879 | 569,000 00 | 20 | 208, 416 |
| Do..... | 1880 | 250,000 00 | 20 | 403 |
| Do..... | 1881 | 300,000 00 | 21 | 155 |
| Do. (deficiency)..... | 1881 | 533 19 | 22 | 273 |
| Do..... | 1882 | 300,000 00 | 21 | 458 |
| Do. (deficiency)..... | 1882 | 3,500 00 | 22 | 591 |
| Do. (deficiency)..... | 1882 | 100 52 | 23 | 251 |
| Do..... | 1883 | 300,000 00 | 22 | 136 |
| Do..... | 1884 | 350,000 00 | 22 | 464 |
| Do..... | 1885 | 203,000 00 | 23 | 125 |
| Do..... | 1886 | 205,000 00 | 23 | 313 |
| Do..... | 1887 | 206,000 00 | 24 | 132 |
| Pennsylvania avenue at Capitol | | | | |
| Penny Lunch..... | 1880 | 1,500 00 | 20 | 669 |

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Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

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|--|-------|-------------|------|----------|
| Permit work, material for..... | 1879 | \$11,521 00 | 20 | 208, 416 |
| Do..... | 1880 | 15,000 00 | 20 | 403 |
| Do..... | 1881 | 20,000 00 | 21 | 155 |
| Do..... | 1882 | 20,000 00 | 21 | 458 |
| Do..... | 1883 | 20,000 00 | 22 | 135 |
| Do. (deficiency)..... | 1883 | 34 96 | 23 | 252 |
| Do..... | 1884 | 30,000 00 | 22 | 464 |
| Do..... | 1885 | 50,000 00 | 23 | 125 |
| Do. (deficiency)..... | 1885 | 177 74 | 24 | 264 |
| Do..... | 1886 | 50,000 00 | 23 | 373 |
| Do..... | 1887 | 60,000 00 | 24 | 132 |
| Phelps, Seth L. (deficiency)..... | 1885 | 156 50 | 23 | 455 |
| Plumbing, inspector of..... | 1882 | 1,500 00 | 21 | 461 |
| Do..... | 1883 | 1,500 00 | 22 | 138 |
| Do..... | 1884 | 1,509 00 | 22 | 463 |
| Do..... | 1885 | 1,800 00 | 23 | 124 |
| Do..... | 1886 | 1,800 00 | 23 | 312 |
| Do..... | 1887 | 1,800 00 | 24 | 131 |
| Plumbing, assistant inspector of..... | 1885 | 1,000 00 | 23 | 124 |
| Do..... | 1886 | 1,000 00 | 23 | 312 |
| Do..... | 1887 | 1,000 00 | 24 | 131 |
| Police court: | | | | |
| Building..... | 1881 | 20,660 00 | 21 | 162 |
| Repairs..... | 1885 | 1,500 00 | 23 | 222 |
| Do..... | 1887 | () | | |
| Salaries and contingent..... | 1879 | *16,000 00 | 20 | 208, 416 |
| Do..... | 1880 | *16,000 00 | 20 | 409 |
| Do..... | 1881 | *14,318 00 | 21 | 161 |
| Do..... | 1882 | *14,318 00 | 21 | 463 |
| Do. (deficiency)..... | 1883 | *12,918 00 | 22 | 141 |
| Do. (deficiency)..... | 1883 | *311 00 | 23 | 252 |
| Do..... | 1883 | *460 00 | 22 | 586 |
| Do. (deficiency)..... | 1884 | *12,918 00 | 22 | 467 |
| Do..... | 1884 | *49 45 | 23 | 455 |
| Do..... | 1885 | *13,718 00 | 23 | 129 |
| Do..... | 1886 | *13,718 00 | 23 | 317 |
| Do..... | 1887 | *13,718 00 | 24 | 135 |
| Police, Metropolitan..... | 1879 | 300,000 00 | 20 | 208, 416 |
| Do. (deficiency)..... | 1879 | 50 85 | 23 | 454 |
| Do..... | 1880 | 302,859 00 | 20 | 408 |
| Do..... | 1880 | 45 40 | 22 | 272 |
| Do. (deficiency)..... | 1881 | 300,180 00 | 21 | 161 |
| Do..... | 1881 | 586 34 | 22 | 272 |
| Do. (deficiency)..... | 1882 | 347,930 28 | 21 | 463 |
| Do. (deficiency)..... | 1882 | 1,224 90 | 22 | 273 |
| Do..... | 1882 | 700 00 | 22 | 591 |
| Do. (deficiency)..... | 1883 | 301,980 00 | 22 | 140 |
| Do. (deficiency)..... | 1883 | 525 52 | 23 | 252 |
| Do..... | 1883 | 500 00 | 22 | 586 |
| Do..... | 1884 | 301,500 00 | 23 | 467 |
| Do. (deficiency)..... | 1885 | 342,100 00 | 23 | 127 |
| Do..... | 1884 | 440 00 | 23 | 455 |
| Do. (deficiency)..... | 1886 | 342,320 00 | 23 | 315 |
| Do..... | 1886 | 1,397 18 | 24 | 263 |
| Do..... | 1887 | 344,780 00 | 24 | 134 |
| Detailed as follows: | | | | |
| Buildings and sites; Building repairs; Fuel, Rent; Salaries; | | | | |
| Contingent expenses, Signal system. | | | | |
| Buildings and sites, † First, Fourth, and Eighth precinct | | | | |
| stations. Proceeds sale of lot 3, sq. 382..... | 1882 | 38,668 10 | { 21 | 467 |
| Do. First, Fourth, and Eighth precinct stations. | | | { 22 | 37 |
| Proceeds sale of lot 3, sq. 490..... | 1882 | 3,075 84 | { 21 | 467 |
| Do. First, Fourth, and Eighth precinct stations. | | | { 22 | 37 |
| Proceeds sale of lots 1 and 17, sq. 312..... | 1882 | 5,071 82 | 22 | 37 |
| Do. First, Fourth, and Eighth precinct stations. | | | | |
| Proceeds sale of lot 8 of sq. 181..... | 1882 | 2,089 52 | { 21 | 467 |
| Do. Stable, Fourth precinct..... | | | { 22 | 37 |
| Do. Second precinct station and site..... | 1885 | 3,000 00 | 23 | 128 |
| Do. Sixth precinct station and site..... | 1885 | 15,000 00 | 23 | 128 |
| Do. Sixth precinct (deficiency)..... | 1886 | 15,000 00 | 23 | 316 |
| Do. Stables, Second and Sixth precincts..... | 1886 | 1,397 18 | 24 | 263 |
| Do. Cells in Third precinct..... | 1887 | 5,500 00 | 24 | 135 |
| Buildings, repairs..... | 1887 | 600 00 | 24 | 135 |
| Do..... | 1879 | 1,200 00 | 20 | 208, 416 |
| Do..... | 1880 | 1,200 00 | 20 | 408 |
| Do..... | 1881 | 1,500 00 | 21 | 160 |
| Do..... | 1882 | 1,500 00 | 21 | 463 |
| Do..... | 1883 | 1,500 00 | 22 | 140 |
| Do..... | 1884 | 1,200 00 | 22 | 467 |

* Including all under head of 'Courts,' except judicial expenses.

† New designations of stations, 1886.

‡ See Police, Metropolitan, Buildings, repairs, 1887.

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Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|---|-------|-------------|--------|----------|
| Police, Metropolitan—Continued. | | | | |
| Buildings, repairs..... | 1885 | \$1,200 00 | 23 | 127 |
| Do..... | 1886 | 1,500 00 | 23 | 315 |
| Do..... | 1887 | 2,000 00 | 24 | 135 |
| Fuel..... | 1879 | 1,543 00 | 20 | 208, 416 |
| Do..... | 1880 | 1,543 00 | 20 | 408 |
| Do..... | 1881 | 1,500 00 | 21 | 161 |
| Do..... | 1882 | 1,500 00 | 21 | 463 |
| Do..... | 1883 | 1,500 00 | 22 | 140 |
| Do. (deficiency)..... | 1883 | 500 00 | 22 | 587 |
| Do..... | 1884 | 1,500 00 | 22 | 467 |
| Do..... | 1885 | 2,000 00 | 23 | 128 |
| Do..... | 1886 | 2,000 00 | 23 | 316 |
| Do..... | 1887 | 2,000 00 | 24 | 135 |
| Rent..... | 1879 | 6,200 00 | 20 | 208, 416 |
| Do..... | 1880 | 6,200 00 | 20 | 408 |
| Do..... | 1881 | 5,960 00 | 21 | 161 |
| Do..... | 1882 | 5,960 00 | 21 | 463 |
| Do..... | 1883 | *5,960 00 | 22 | 140 |
| Do..... | 1884 | 2,620 00 | 22 | 467 |
| Do..... | 1885 | 3,020 00 | 23 | 128 |
| Do..... | 1886 | 2,160 00 | 23 | 316 |
| Do..... | 1887 | 1,200 00 | 24 | 135 |
| Salaries..... | 1879 | 278,873 00 | 20 | 208, 416 |
| Do..... | 1880 | 1281,732 00 | 20 | 408 |
| Do..... | 1881 | 284,751 00 | 21 | 161 |
| Do..... | 1882 | 283,596 00 | 21 | 463 |
| Do..... | 1883 | 283,020 00 | 22 | 140 |
| Do..... | 1884 | 286,440 00 | 22 | 467 |
| Do..... | 1885 | 303,380 00 | 23 | 128 |
| Do..... | 1886 | 208,060 00 | 23 | 316 |
| Do..... | 1887 | 318,880 00 | 24 | 135 |
| Contingent expenses..... | 1879 | 12,184 90 | 20 | 208, 416 |
| Do. (deficiency)..... | 1879 | 50 85 | 23 | 454 |
| Do..... | 1880 | 12,184 00 | 20 | 408 |
| Do. (deficiency)..... | 1880 | 45 40 | 22 | 272 |
| Do..... | 1881 | 6,469 00 | 21 | 161 |
| Do. (deficiency)..... | 1881 | 586 34 | 22 | 272 |
| Do..... | 1882 | 6,469 00 | 21 | 463 |
| Do. (deficiency)..... | 1882 | 700 00 | 22 | 591 |
| Do..... | 1882 | 1,224 00 | 22 | 273 |
| Do..... | 1883 | 10,000 00 | 22 | 140 |
| Do. (deficiency)..... | 1883 | 525 52 | 23 | 252 |
| Do..... | 1884 | 9,500 00 | 22 | 467 |
| Do..... | 1885 | 9,500 00 | 23 | 128 |
| Do. (deficiency)..... | 1885 | 440 00 | 23 | 455 |
| Do..... | 1886 | 11,000 00 | 23 | 316 |
| Do..... | 1887 | 10,000 00 | 24 | 135 |
| Signal system..... | 1885 | 5,000 00 | 23 | 128 |
| Do..... | 1886 | 2,600 00 | 23 | 316 |
| Do..... | 1887 | 4,500 00 | 24 | 135 |
| Poor, relief of..... | 1878 | 5,000 00 | 20 | 250 |
| Do..... | 1879 | 5,000 00 | 20 | 208, 416 |
| Do..... | 1879 | 15,000 00 | 20 | 208, 416 |
| Do..... | 1880 | 15,000 00 | 20 | 404 |
| Do..... | 1881 | 10,000 00 | 21 | 157 |
| Do..... | 1881 | 660 00 | 23 | 251 |
| Do..... | 1882 | 15,000 00 | 21 | 459 |
| Do..... | 1883 | 15,000 00 | 22 | 137 |
| Do..... | 1884 | 15,000 00 | 22 | 465 |
| Do..... | 1885 | 15,000 00 | 23 | 126 |
| Do..... | 1886 | 15,000 00 | 23 | 314 |
| Do..... | 1887 | 15,000 00 | 24 | 133 |
| Poor, physicians to. (Included in Poor, relief of.) | | | 22 | 143, 470 |
| Printing Office, Government, protection of..... | 1881 | 11,621 00 | 21 | 158 |
| Property, division of..... | 1882 | 11,115 00 | 21 | 461 |
| Do..... | | | | |
| Property, sales of: | | | 23, 20 | 130, 353 |
| Square 109 (See, also, Holmead Cemetery)..... | | 51,362 00 | 21, 22 | 37, 467 |
| Lot 3, square 382..... | | 38,664 10 | 21, 22 | 37, 467 |
| Lot 3, square 490..... | | 3,075 84 | 22 | 37 |
| Lots 1 and 17, square 372..... | | 5,071 82 | 22 | 37 |
| Lot 245, square 99..... | | | 21 | 467 |

* \$700 of this usable for furniture.

† Include 2 telegraph operators and laborers.

‡ Include 2 telegraph operators and laborers and telephone operators.

§ Include 3 telephone operators and laborers.

|| Include purchase of ambulance.

¶ Included in Salaries of engineer's office for future years.

106 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|---|-------|--------------|------|----------|
| Property, sales of—Continued. | | | | |
| South of square 181..... | | \$2, 089 52½ | 21 | 467 |
| Fish wharf, square 6..... | | | 22 | 37 |
| Lots 47, 48, and 49, square 30..... | | | 21 | 467 |
| Two lots in square 108..... | | | 21 | 467 |
| Angles at Sixteenth and K streets..... | | 7, 452 00 | 20 | 408 |
| Printing Office, Government, water supply to. (See Government Printing Office.) | | | 21 | 467 |
| Property yards, rent of..... | 1879 | 300 00 | 20 | 208, 416 |
| Do..... | 1880 | 300 00 | 20 | 409 |
| Do..... | 1881 | 300 00 | 21 | 158 |
| Do..... | 1882 | 300 00 | 21 | 461 |
| Do..... | 1883 | *300 00 | 22 | 139 |
| Do..... | 1884 | *300 00 | 22 | 463 |
| Do..... | 1885 | *300 00 | 23 | 124 |
| Do..... | 1886 | *300 00 | 23 | 312 |
| Do..... | 1887 | *300 00 | 24 | 131 |
| Pumps..... | 1879 | 2, 500 00 | 20 | 208, 416 |
| Do..... | 1880 | 2, 500 00 | 20 | 409 |
| Do..... | 1881 | 3, 000 00 | 21 | 159 |
| Do..... | 1882 | 3, 000 00 | 21 | 462 |
| Do..... | 1883 | 3, 000 00 | 22 | 139 |
| Do. (deficiency)..... | 1883 | 7 08 | 23 | 252 |
| Do..... | 1884 | 3, 000 00 | 22 | 466 |
| Do..... | 1885 | 3, 000 00 | 23 | 127 |
| Do..... | 1886 | 3, 000 00 | 23 | 315 |
| References..... | 1887 | 3, 000 00 | 24 | 134 |
| Reform school..... | 1882 | 2, 000 00 | 21 | 464 |
| Do..... | 1879 | *20, 000 00 | 20 | 208, 416 |
| Do..... | 1879 | †10, 000 00 | 20 | 208, 416 |
| Do..... | 1880 | †20, 000 00 | 20 | 404 |
| Do., purchase of Peter farm..... | 1881 | *25, 000 00 | 21 | 156 |
| Do., salaries..... | 1881 | 8, 500 00 | 21 | 156 |
| Do., support..... | 1882 | 10, 600 00 | 21 | 459 |
| Do., workshop and machinery..... | 1882 | 21, 014 00 | 21 | 459 |
| Do., support (deficiency)..... | 1882 | (5) | 21 | 459 |
| Do., salaries..... | 1882 | 2, 775 00 | 22 | 273 |
| Do., support..... | 1883 | 10, 936 00 | 22 | 137 |
| Do., salaries..... | 1883 | 27, 014 00 | 22 | 137 |
| Do., support..... | 1884 | 10, 936 00 | 22 | 465 |
| Do., salaries..... | 1884 | 22, 014 00 | 22 | 465 |
| Do., support..... | 1885 | 10, 916 00 | 23 | 126 |
| Do., salaries..... | 1885 | 22, 000 00 | 23 | 126 |
| Do., support..... | 1886 | 11, 616 00 | 23 | 314 |
| Do., salaries..... | 1886 | 25, 000 00 | 23 | 314 |
| Do., support..... | 1887 | 11, 616 00 | 24 | 133 |
| Do., water-tank and building..... | 1887 | 25, 000 00 | 24 | 133 |
| Register of wills..... | 1887 | 19, 500 00 | 24 | 252 |
| Do..... | 1879 | | 20 | 208, 416 |
| Do..... | 1880 | | 20 | 409 |
| Do..... | 1881 | | 21 | 162 |
| Do. (deficiency)..... | 1882 | | 21 | 465 |
| Do..... | 1882 | | 22 | 273 |
| Do. (deficiency)..... | 1883 | | 22 | 142 |
| Do..... | 1883 | | 23 | 252 |
| Do..... | 1884 | | 22 | 469 |
| Do..... | 1885 | | 23 | 130 |
| Do..... | 1886 | | 23 | 318 |
| Rent. (See Markets, Property Yards and District Offices, Schools, and Police.) | 1887 | | 24 | 136 |
| Roads, county and suburban streets..... | 1879\|\| |  | 20 | 208, 416 |
| Do. (deficiency)..... | 1879 | 2, 484 76 | 22 | 272 |
| Do. (deficiency)..... | 1880\|\| |  | 20 | 409 |
| Do..... | 1880\|\| | 319 61 | 22 | 272 |
| Do..... | 1881\|\| |  | 21 | 159 |
| Do..... | 1882 | 20, 000 00 | 21 | 462 |
| Do..... | 1883 | 25, 000 00 | 22 | 139 |
| Do..... | 1884 | 20, 000 00 | 22 | 406 |
| Do..... | 1885\|\| | 25, 000 00 | 23 | 127 |
| Do..... | 1886 | 40, 000 00 | 23 | 315 |
| Do., opening and extending..... | 1887 | 40, 000 00 | 24 | 134 |
| Road, Fourteenth street, opening and widening..... | 1887 | 30, 000 00 | 24 | 134 |
| Road, Seventh street, repairs of..... | 1883 | 6, 000 00 | 20 | 136 |
| Roadways, macadam. (See Macadam roadways.) | 1881 | 15, 000 00 | 21 | 156 |
| Rock Creek Basin. (See Sewers, tidal.) | | | | |

* Included in Contingent expenses office engineer.
† Including salaries and support.

‡ Including salaries and support and improvements.
§ Balance due from Jay Cooke & Co.

|| Included in Streets, &c., current repairs to for these years.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 107

Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|---|-------|--------------|------|----------|
| Schools | 1879 | \$380,000 00 | 20 | 208, 416 |
| Do. | 1880 | 475,000 00 | 20 | 408 |
| Do. (deficiency) | 1880 | 8,544 00 | 21 | 233 |
| Do. | 1881 | 502,534 80 | 21 | 159 |
| Do. (deficiency) | 1881 | 182 36 | 22 | 272 |
| Do. | 1882 | 582,062 47 | 21 | 464 |
| Do. (deficiency) | 1882 | 41,739 74 | | |
| Do. | 1883 | 527,740 40 | 23 | 141 |
| Do. (deficiency) | 1883 | \|\|88,056 99 | | |
| Do. | 1884 | 546,175 00 | 22 | 468 |
| Do. (deficiency) | 1884 | \|\|10,214 17 | | |
| Do. | 1885 | 590,840 00 | 23 | 129 |
| Do. (deficiency) | 1885 | \|\|5,718 33 | | |
| Do. | 1886 | 554,930 00 | 23 | 317 |
| Do. (deficiency) | 1886 | \|\|1,730 13 | | |
| Do. | 1887 | 597,750 00 | 24 | 136 |
| Do. (deficiency) | 1887 | \|\|1,500 00 | 24 | 264 |
| <i>Detailed as follows: Buildings, additions, and sites; Repairs and improvement of grounds; Fuel; Rent; Salaries; Contingent expenses.</i> | | | | |
| Buildings, additions, and sites: | | | | |
| Force and Peabody | 1880 | 75,000 00 | 20 | 408 |
| Force, site in square 158 given for | 1880 | | 20 | 408 |
| Peabody, completion of (deficiency) | 1880 | 7,500 00 | 21 | 253 |
| Henry Garnett, Tennallytown, and Columbia Road | 1881 | 100,060 00 | 21 | 160 |
| Gales, Webster, Anacostia, and Bladensburg Pike | 1882 | 104,000 00 | 21 | 465 |
| Heating and ventilating (deficiency) | 1882 | 13,000 00 | 22 | 273 |
| High-school, proceeds of bonds | 1882 | 70,630 47 | 21 | 465 |
| High-school, proceeds of sale of angles at corner Sixteenth and K, northwest | 1882 | 7,452 00 | 21 | 467 |
| Jefferson, rebuilding (deficiency) | 1882 | (*) | 22 | 12 |
| Do. | 1882 | 363 00 | 23 | 251 |
| Do. | 1883 | 57,000 00 | 22 | 142 |
| Fire-escapes | 1883 | 10,000 00 | 22 | 142 |
| Amidon | 1883 | 24,000 00 | 22 | 142 |
| Analoetan | 1883 | 48,000 00 | 22 | 142 |
| Bannaker | 1883 | 24,000 00 | 22 | 142 |
| Howard University (addition) | 1883 | 3,318 00 | 22 | 142 |
| Anacostia, additional ground for | 1883 | 750 00 | 22 | 142 |
| Seaton, additional ground for | 1883 | 3,800 00 | 22 | 142 |
| Morse and Twining | 1884 | 57,000 00 | 22 | 469 |
| Brent | 1884 | 25,000 00 | 22 | 469 |
| Bladensburg Road, near Bro oks' | 1884 | 3,000 00 | 22 | 469 |
| Bladensburg Pike (addition) | 1884 | 12,000 00 | 22 | 469 |
| Benning's | 1884 | 5,000 00 | 22 | 469 |
| Heating and ventilating | 1884 | 12,000 00 | 22 | 468 |
| Bladensburg Pike | 1885 | 3,500 00 | 23 | 130 |
| Wormley and Blair | 1885 | 39,000 00 | 23 | 130 |
| Dennison | 1885 | 66,000 00 | 23 | 130 |
| Addison and Stevens | | | | |
| Sites in square 1010 and Thirteenth-and-a-half and M streets southwest | 1886 | 60,000 00 | 23 | 318 |
| Heating apparatus (deficiency) | 1886 | 250 00 | 24 | 263 |
| School site (deficiency) | 1886 | 880 13 | 24 | 264 |
| School site, &c. | 1887 | 50,000 00 | 24 | 136 |
| Do. | 1887 | 25,000 00 | 24 | 264 |
| Repairs and improvement of grounds | 1879 | 20,000 00 | 20 | 208, 416 |
| Do. | 1880 | 25,000 00 | 21 | 408 |
| Do. | 1881 | 15,000 00 | 21 | 160 |
| Do. (deficiency) | 1881 | 105 87 | 22 | 273 |
| Do. | 1882 | 10,000 00 | 21 | 465 |
| Do. (deficiency) | 1882 | 3,000 00 | 22 | 273 |
| Do. | 1882 | 2,000 00 | 22 | 273 |
| Do. | 1882 | 1,000 00 | 22 | 273 |
| Do. | 1882 | 15,000 00 | 22 | 141 |
| Do. | 1883 | 52,540 50 | 22 | 591 |
| Do. (deficiency) | 1884 | 15,000 00 | 22 | 468 |
| Do. | 1884 | 2,500 00 | 23 | 17 |
| Do. (deficiency) | 1884 | 64 17 | 23 | 455 |
| Do. | 1885 | 20,000 00 | 22 | 130 |
| Do. | 1886 | 20,000 00 | 23 | 318 |
| Do. | 1887 | 20,000 00 | 24 | 136 |
| Fuel | 1879 | 12,000 00 | 20 | 208, 416 |
| Do. | 1880 | 12,000 00 | 20 | 408 |
| Do. | 1881 | 12,000 00 | 21 | 160 |
| Do. | 1882 | 11,000 00 | 21 | 465 |

*Reduced from \$70,000 to \$57,000. (See 1883.)

†Insufficient; not used. (See 1885.)

‡Proceeds square 109.

§Reappropriation.

|| See "Detailed, &c.," for references to items.

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Index to appropriations for support of the government of the district of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | V. l. | Page. |
|--|-------|------------|-------|----------|
| Schools—Continued. | | | | |
| Fuel (deficiency)..... | 1882 | \$5,000 00 | 22 | 273 |
| Do..... | 1883 | 15,000 00 | 22 | 141 |
| Do. (deficiency)..... | 1883 | 4,500 00 | 22 | 586 |
| Do..... | 1884 | 18,000 00 | 22 | 468 |
| Do. (deficiency)..... | 1884 | 500 00 | 23 | 253 |
| Do..... | 1885 | 18,000 00 | 23 | 130 |
| Do..... | 1886 | 20,000 00 | 23 | 318 |
| Do..... | 1887 | 20,000 00 | 24 | 136 |
| Rent..... | 1879 | 28,000 00 | 20 | 208, 416 |
| Do..... | 1880 | 30,000 00 | 20 | 408 |
| Do..... | 1881 | 27,600 00 | 21 | 160 |
| Do. (deficiency)..... | 1881 | 76 49 | 22 | 27 |
| Do. (deficiency)..... | 1882 | 23,000 00 | 21 | 464 |
| Do..... | 1882 | 2,000 00 | 22 | 12 |
| Do..... | 1882 | 1,472 57 | 22 | 591 |
| Do..... | 1883 | 14,000 00 | 22 | 141 |
| Do. (special rent)..... | 1883 | 1,200 00 | 22 | 142 |
| Do..... | 1884 | 8,000 00 | 22 | 468 |
| Do..... | 1884 | 750 00 | 23 | 253 |
| Do. (deficiency)..... | 1885 | 6,400 00 | 23 | 130 |
| Do..... | 1885 | 700 00 | 23 | 455 |
| Do..... | 1885 | 500 00 | 24 | 264 |
| Do..... | 1886 | 7,000 00 | 23 | 318 |
| Do. (deficiency)..... | 1887 | 6,000 00 | 24 | 136 |
| Salaries..... | 1877 | 1,500 00 | 24 | 264 |
| Do..... | 1879 | 301,412 63 | 20 | 208, 416 |
| Do..... | 1880 | 311,412 63 | 20 | 407 |
| Do..... | 1881 | 327,834 80 | 21 | 159 |
| Do. (deficiency)..... | 1882 | 346,980 00 | 21 | 464 |
| Do. (deficiency)..... | 1882 | 8,000 00 | 22 | 273 |
| Do. (deficiency)..... | 1880 | 1,344 00 | 22 | 273 |
| Do..... | 1882 | 150 00 | 23 | 251 |
| Do..... | 1883 | 367,325 00 | 22 | 141 |
| Do. (deficiency)..... | 1884 | 379,675 00 | 22 | 468 |
| Do..... | 1884 | 3,900 00 | 23 | 17 |
| Do..... | 1885 | 407,880 00 | 23 | 120 |
| Do..... | 1886 | 427,930 00 | 23 | 318 |
| Do, night school (deficiency)..... | 1886 | 67,000 00 | 24 | 264 |
| Do, including night school..... | 1887 | 456,750 00 | 14 | 136 |
| Contingent expenses, including furniture, &c..... | 1879 | 18,587 47 | 20 | 208, 416 |
| Do..... | 1880 | 21,587 27 | 20 | 408 |
| Do..... | 1881 | 20,000 00 | 21 | 160 |
| Do. (deficiency)..... | 1882 | 15,000 00 | 21 | 465 |
| Do..... | 1882 | 5,000 00 | 22 | 273 |
| Do..... | 1882 | 754 17 | 22 | 591 |
| Do, furniture..... | 1883 | 15,000 00 | 22 | 441 |
| Do. (deficiency)..... | 1883 | 6,000 00 | 23 | 469 |
| Do, apparatus (deficiency)..... | 1883 | 1,875 68 | 23 | 252 |
| Do, furniture (deficiency)..... | 1883 | 1,971 72 | 23 | 252 |
| Do. (deficiency)..... | 1883 | 5 49 | 23 | 252 |
| Do. (deficiency)..... | 1883 | 6 50 | 23 | 44 |
| Do..... | 1883 | 4 50 | 24 | 264 |
| Do, furniture..... | 1884 | 15,000 00 | 22 | 468 |
| Do. (deficiency)..... | 1884 | 6,000 00 | 22 | 469 |
| Do..... | 1884 | 5,000 00 | 22 | 273 |
| Do. (deficiency)..... | 1885 | 20,000 00 | 23 | 130 |
| Do. (deficiency)..... | 1885 | 23,000 00 | 23 | 455 |
| Do..... | 1885 | 2,118 33 | 24 | 264 |
| Do..... | 1886 | 20,000 00 | 23 | 318 |
| Sealer of weights and measures..... | 1887 | 20,000 00 | 24 | 136 |
| Do..... | 1879 | 80 00 | 20 | 208, 416 |
| Do. (deficiency)..... | 1880 | 80 00 | 20 | 406 |
| Do..... | 1880 | 6 67 | 21 | 253 |
| Do..... | 1881 | 80 00 | 21 | 158 |
| Do..... | 1882 | 80 00 | 21 | 461 |
| Sewers, construction of, and sewers, cleaning, as follows: | 1883 | 80 00 | 22 | 138 |
| Sewers, construction of (deficiency)..... | 1879 | | 22 | 274 |
| Do..... | 1880 | 143,000 00 | 20 | 403 |
| Do. (deficiency)..... | 1880 | 457 59 | 23 | 454 |
| Do..... | 1881 | 115,000 00 | 21 | 155 |
| Do. (deficiency)..... | 1881 | 6,414 30 | 23 | 454 |
| Do..... | 1882 | 72,000 00 | 21 | 458 |
| Do..... | 1883 | 106,000 00 | 22 | 135, 143 |
| Do..... | 1884 | 595,000 00 | 22 | 464 |
| Do..... | 1884 | 41 36 | 24 | 264 |
| Do..... | 1885 | 100,000 00 | 23 | 125 |
| Do..... | 1885 | 20,000 00 | 24 | 264 |

* Reimbursement.

† Salary discontinued after 1883.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 109

Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|--|-------|-------------|------|----------|
| Sewers, construction of (deficiency)..... | 1886 | 25,000 00 | 23 | 313 |
| Do..... | 1887 | 46,200 00 | 24 | 132, 224 |
| Sewers, cleaning..... | 1880 | 10,000 00 | 20 | 408 |
| Do..... | 1881 | 3,000 00 | 21 | 159 |
| Do..... | 1882 | 23,000 00 | 21 | 462 |
| Do. (deficiency)..... | 1882 | 25 57 | 22 | 591 |
| Do..... | 1883 | 23,000 00 | 22 | 139 |
| Do..... | 1884 | 23,000 80 | 22 | 464, 466 |
| Do. (deficiency)..... | 1884 | 40 28 | 23 | 454 |
| Do..... | 1885 | 25,000 00 | 23 | 127 |
| Do. (deficiency)..... | 1885 | 73 47 | 24 | 264 |
| Do..... | 1886 | 25,000 00 | 23 | 315 |
| Do..... | 1887 | 25,000 00 | 24 | 134 |
| <i>Detailed as follows: Under Sewers, Boundary; Sewers, lateral; Sewers and basins; Sewers, tidal; Sewers, Tiber; Sewer in New York avenue; Sewerage system, completion of; Sewers (general); Sewer to Bureau of Printing and Engraving.</i> | | | | |
| Sewer, Boundary (deficiency)..... | 1879 | (*) | 22 | 274 |
| Do..... | 1880 | 100,000 00 | 20 | 403 |
| Do. (deficiency)..... | 1880 | 457 59 | 23 | 454 |
| Do..... | 1881 | 100 000 00 | 21 | 155 |
| Do. (deficiency)..... | 1881 | 6,414 30 | 23 | 454 |
| Do..... | 1882 | 50,000 00 | 21 | 458 |
| Do..... | 1883 | 85,000 00 | 22 | 135 |
| Do..... | 1883 | 1,000 00 | 22 | 143 |
| Do., condemnation land for..... | 1884 | 75,000 00 | 22 | 464 |
| Do..... | 1884 | 44 36 | 24 | 264 |
| Do. (deficiency)..... | 1885 | 1100,000 00 | 23 | 125 |
| Do..... | 1885 | 20,000 00 | 24 | 264 |
| Do. (deficiency)..... | 1885 | 15,000 00 | 20 | 403 |
| Sewers, lateral..... | 1881 | 15,000 00 | 21 | 155 |
| Do..... | 1882 | 18,000 00 | 21 | 458 |
| Do., cleaning..... | 1882 | 20,000 00 | 21 | 462 |
| Do..... | 1883 | 20,000 00 | 22 | 135 |
| Do., cleaning..... | 1883 | 20,000 00 | 22 | 139 |
| Do..... | 1884 | 20,000 00 | 22 | 464 |
| Do., cleaning..... | 1884 | 20,000 00 | 22 | 466 |
| Do., (deficiency)..... | 1884 | 4 48 | 23 | 454 |
| Do., cleaning..... | 1885 | 22,000 00 | 23 | 127 |
| Do., cleaning (deficiency)..... | 1885 | 53 78 | 24 | 264 |
| Do..... | 1886 | 25,000 00 | 23 | 313 |
| Do., cleaning and repairing..... | 1886 | 20,000 00 | 23 | 315 |
| Do..... | 1887 | (§) | | |
| Sewers and basins, cleaning..... | 1887 | 25,000 00 | 24 | 134 |
| Sewers, tidal, cleaning..... | 1881 | 3,600 00 | 21 | 159 |
| Do..... | 1882 | 3,000 00 | 21 | 462 |
| Do., cleaning (deficiency)..... | 1882 | 25 57 | 22 | 591 |
| Do., cleaning..... | 1883 | 3,000 00 | 22 | 139 |
| Do..... | 1884 | 3,000 00 | 22 | 466 |
| Do., cleaning (deficiency)..... | 1884 | 35 80 | 23 | 454 |
| Do., cleaning..... | 1885 | 3,000 00 | 23 | 127 |
| Do., cleaning (deficiency)..... | 1885 | 19 69 | 24 | 264 |
| Do., cleaning..... | 1886 | 5,000 00 | 23 | 315 |
| Do..... | 1887 | (\|\|) |  |  |
| Sewer, Tiber, cleaning..... | 1880 | 10,000 00 | 20 | 409 |
| Sewer, New York avenue..... | 1880 | 28,000 00 | 21 | 155 |
| Do..... | 1882 | 7,000 00 | 21 | 458 |
| Sewerage system, completion of..... | 1884 | 500,000 00 | 23 | 62 |
| Sewers (general)..... | 1887 | 45,530 00 | 24 | 132 |
| Sewer, Bureau of Engraving and Printing..... | 1887 | 1,200 00 | 24 | 224 |
| Sewer certificates, redemption of..... | 1886 | 366 96 | 23 | 313 |
| Sinking-fund office, salaries and contingent..... | 1879 | 2,700 00 | 20 | 208, 416 |
| Do..... | 1880 | 2,000 00 | 20 | 405 |
| Do..... | 1881 | 2,700 00 | 21 | 158 |
| Do..... | 1882 | 2,700 00 | 21 | 461 |
| Do..... | 1883 | 2,700 00 | 22 | 138 |
| Do..... | 1884 | 2,700 00 | 22 | 463 |
| Do..... | 1885 | 2,700 00 | 23 | 124 |
| Do..... | 1886 | 2,700 00 | 23 | 312 |
| Do..... | 1887 | 2,700 00 | 24 | 131 |

* Transfer from 1881.

† The \$100,000 for 1885 was merged with the \$500,000 for 1884 for completion of sewerage system, and out of said combined funds the work on boundary and other sewers done.

‡ See Sewers and basins' cleaning.

§ Cleaning basins was under lateral sewers for years preceding 1887; see also Sewers, tidal, and Sewer Tiber.

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Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Object. | Year. | Amount. | Vol. | Page. |
|---|-------|------------|------|----------|
| Sinking fund. (See Interest and sinking-fund.) | | | | |
| Smead, Isaac C. (deficiency) | 1880 | \$250 00 | 24 | 263 |
| Special assessment division. | 1880 | 6,440 00 | 20 | 405 |
| Do | 1881 | 4,300 00 | 21 | 157 |
| Do | 1882 | 11,800 00 | 21 | 461 |
| Do | 1883 | 11,800 00 | 22 | 138 |
| Do | 1884 | 11,700 00 | 22 | 462 |
| Do | 1885 | 11,700 00 | 23 | 123 |
| Do | 1886 | 11,700 00 | 23 | 311 |
| Do | 1887 | 11,700 00 | 24 | 130 |
| Station-houses. (See Police.) | | | | |
| Streets. (See Avenues and streets; Lamps, street; Parking; Pavements, concrete; Pavements, replacement of; Permit work; Pumps; Road, Fourteenth street; Road, Seventh street; Roads, county, and suburban streets; Roadways macadam; Streets, avenues, and alleys, current repairs to; Streets and avenues, work on sundry; Streets, suburban; Streets, sweeping, cleaning, and sprinkling; Sewers. | | | | |
| Streets, avenues, and alleys, current repairs to | 1879 | 56,741 00 | 20 | 208, 416 |
| Do | 1879 | 2,484 76 | 22 | 272 |
| Do | 1880 | 75,500 00 | 20 | 400 |
| Do. (deficiency) | 1880 | 319 61 | 22 | 272 |
| Do | 1881 | 70,000 00 | 21 | 159 |
| Do | 1882 | 20,000 00 | 21 | 462 |
| Do. (deficiency) | 1882 | 2 00 | 22 | 591 |
| Do | 1883 | 25,000 00 | 22 | 139 |
| Do | 1884 | 25,000 00 | 22 | 466 |
| Do | 1885 | 25,000 00 | 23 | 127 |
| Do. (deficiency) | 1885 | 22 98 | 24 | 264 |
| Do | 1886 | 25,000 00 | 23 | 315 |
| Do | 1887 | 25,000 00 | 24 | 134 |
| Streets and avenues, sundry work on. (See Pavement, replacement of.) | | | | |
| Streets, suburban. (See Roads, county, &c.) | | | | |
| Streets and avenues, sweeping, cleaning, and sprinkling | 1879 | 35,100 00 | 20 | 208, 416 |
| Do | 1880 | 35,100 00 | 20 | 409 |
| Do | 1881 | 35,100 00 | 21 | 159 |
| Do | 1882 | 30,000 00 | 21 | 462 |
| Do | 1883 | 33,000 00 | 22 | 139 |
| Do | 1884 | 40,000 00 | 22 | 466 |
| Do | 1885 | 40,000 00 | 23 | 127 |
| Do | 1886 | 45,000 00 | 23 | 315 |
| Do | 1887 | *58,000 00 | 24 | 134 |
| Suits against District of Columbia in Court of Claims and Departments, defense of District of Columbia. | 1887 | | 24 | 252 |
| Suits, costs of, to reimburse Commissioner Phelps, defendant. | 1885 | 156 00 | 23 | 455 |
| Surveys of District of Columbia. | 1881 | 5,000 00 | 21 | 156 |
| Do | 1882 | 5,000 00 | 21 | 453 |
| Do | 1883 | 5,000 00 | 22 | 135 |
| Do | 1884 | 5,000 00 | 22 | 464 |
| Do | 1885 | 5,000 00 | 23 | 125 |
| Do | 1886 | 5,000 00 | 23 | 313 |
| Surveyor's records, binding | 1887 | 4,000 00 | 24 | 132 |
| Taxes, refunding of | 1883 | 500 00 | 22 | 139 |
| Taxes, school and other. | | | | |
| Taxes on Columbia Hospital, payment of, (deficiency) | 1879 | 35,000 00 | 20 | 208, 416 |
| Taxes on lots 6 and 7, square 169 (deficiency) | 1884 | 5,320 53 | 23 | 253 |
| Telegraph and telephone service. | 1885 | 543 30 | 23 | 456 |
| Do | 1879 | | 20 | 208, 416 |
| Do | 1880 | | | |
| Do | 1881 | | | |
| Do | 1882 | | | |
| Do. (deficiency) | 1883 | 17,000 00 | 22 | 140 |
| Do | 1883 | 1,000 00 | 23 | 252 |
| Do | 1884 | 12,440 00 | 22 | 467 |
| Do | 1885 | 20,440 00 | 23 | 129 |
| Do | 1886 | 15,440 00 | 23 | 317 |
| Do | 1887 | 15,840 00 | 24 | 135 |
| Town Hall, Georgetown, remodeling of. (See Fire Department building.) | | | | |
| Tramway, Washington Asylum | | | | |
| Treasurer's office, District of Columbia. (See Assessor's office.) | 1885 | 3,250 00 | 23 | 125 |
| Washington Asylum. (See Asylum.) | | | | |

* Cleaning alleys, provided for separately before, included in the appropriation for 1887.

† Included in Assessor's office.

‡ Included in Collector's office.

§ Included in salaries of fire department for these years.

|| \$1,000 reappropriated of 1883.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 111

Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1887, inclusive—Continued.

| Objects. | Year. | Amount. | Vol. | Page. |
|--|-------|------------|------|---------|
| Water Department. (See also Water supply, &c., <i>infra</i>.) | | | | |
| Salaries..... | 1883 | \$9,339 00 | 22 | 143 |
| Do..... | 1884 | 9,342 00 | 22 | 470 |
| Do..... | 1885 | 9,339 00 | 23 | 131 |
| Do..... | 1886 | 9,339 00 | 23 | 319 |
| Do..... | 1887 | 9,539 00 | 24 | 137 |
| Contingent expenses..... | 1883 | 2,400 00 | 22 | 143 |
| Do..... | 1884 | 2,400 00 | 22 | 470 |
| Do..... | 1885 | 2,400 00 | 23 | 131 |
| Do..... | 1886 | 2,400 00 | 23 | 319 |
| Do..... | 1887 | 2,400 00 | 24 | 137 |
| Mains, purchase and laying of, and high service..... | 1883 | 52,501 50 | 22 | 143 |
| Do..... | 1884 | 49,501 50 | 22 | 470 |
| Do..... | 1885 | 100,000 00 | 23 | 131 |
| Do..... | 1886 | 78,000 00 | 23 | 319 |
| Do..... | 1887 | 75,000 00 | 24 | 137 |
| Interest on water bonds, and on advance for additional water supply. (See Interest.) | | | | |
| Water supply of city of Washington, increase of: | | | | |
| Interest on cost. (See Interest, &c.) | | | | |
| Land for aqueduct..... | 1882 | 51,370 00 | 22 | 170 |
| Aqueduct..... | 1882 | 589,534 55 | 22 | 170 |
| Main connections..... | 1882 | 165,400 00 | 22 | 170 |
| Land for reservoir..... | 1882 | 35,250 00 | 22 | 170 |
| Work on reservoir and gate-house..... | 1882 | 431,273 75 | 22 | 170 |
| Water rights at Great Falls..... | 1882 | 45,000 00 | 22 | 170 |
| Work on dam at Great Falls..... | 1882 | 145,151 00 | 22 | 170 |
| Protect Chesapeake and Ohio Canal..... | 1882 | 12,300 00 | 22 | 170 |
| Fishway..... | 1882 | 50,000 00 | 22 | 170 |
| Land for reservoir..... | 1884 | 87,500 00 | 23 | 253 |
| Weights and measures, sealer of. (See Sealer, &c.) | | | | |
| Women's Christian Association..... | 1880 | 5,000 00 | 20 | 404 |
| Do..... | 1881 | 5,000 00 | 21 | 157 |
| Do..... | 1882 | 5,000 00 | 21 | 460 |
| Do..... | 1883 | 5,000 00 | 22 | 137 |
| Do..... | 1884 | 5,000 00 | 22 | 465 |
| Do..... | 1885 | 5,000 00 | 23 | 126 |
| Do..... | 1886 | 5,000 00 | 23 | 314 |
| Do..... | 1887 | 4,000 00 | 24 | 133 |
| Workhouse, erection of. (See Asylum). | | | | |
| Workmen of board of public works or contractors thereunder.... | 1879 | 75,000 00 | 20 | 208,416 |

B.—REPORT OF THE TREASURER OF THE UNITED STATES
AND EX-OFFICIO COMMISSIONER OF SINKING-FUND.*Statement of the funded indebtedness of the District of Columbia and late corporation of Washington.*

| Description of bonds. | Act authorizing issue. | Date of maturity. | Interest. | |
|--|---|-------------------|-------------------|-------------------|
| | | | Rate. | Coin or currency. |
| Of the District of Columbia: | | | <i>Per cent.</i> | |
| Permanent improvement. | Assembly, July 10 and December 16, 1871. | July 1, 1891 | 6 | Coin. |
| Water stock | Assembly, July 20, 1871. | Oct. 1, 1901 | 7 | Currency. |
| Market stock | Assembly, August 23, 1871, and June 19, 1872. | July 26, 1892 | 7 | Do. |
| Permanent improvement. | Assembly, June 23 and 25, 1873. | July 1, 1891 | 7 | Do. |
| Water stock | Assembly, June 26, 1873. | July 1, 1903 | 7 | Do. |
| Fifty-year funding | Congress, June 20, 1874, February 20 and March 3, 1875. | Aug. 1, 1924 | 3 $\frac{5}{100}$ | Do. |
| Twenty-year funding | Congress, June 10, 1879, and June 8, 1880. | July 1, 1899 | 5 | Do. |
| Of the late corporation of Washington: | | | | |
| Three-year (Emery)..... | Congress, July 7, 1870. | July 30, 1873 | 7 $\frac{1}{2}$ | Do. |
| Twenty-year funding | Congress, May 8, 1872. | July 1, 1892 | 6 | Coin. |
| Thirty-year funding | Assembly, District of Columbia, June 20, 1872. | Nov. 1, 1902 | 6 | Coin. |

| Description of bonds. | Interest. | | Amount registered. | Amount coupon. | Total. |
|--|---------------|--------------------|--------------------|----------------|---------------|
| | Payable. | When due. | | | |
| Of the District of Columbia: | | | | | |
| Permanent improvement. | Semi-annually | Jan. 1 and July 1. | | \$3, 369, 600 | \$3, 369, 600 |
| Water stock | do | do | | 360, 000 | 360, 000 |
| Market stock | do | do | \$100, 000 | 46, 200 | 146, 200 |
| Permanent improvement. | do | do | | 641, 100 | 641, 100 |
| Water stock | do | do | | 15, 000 | 15, 000 |
| Fifty-year funding | do | Feb. 1 and Aug. 1. | 11, 367, 000 | 2, 666, 600 | *14, 033, 600 |
| Twenty-year funding | do | Jan. 1 and July 1. | 320, 000 | 628, 400 | 948, 400 |
| Of the late corporation of Washington: | | | | | |
| Three-year (Emery)..... | Semi annually | Interest ceased. | | 100 | 100 |
| Twenty-year funding .. | do | Jan. 1 and July 1. | | 1, 019, 850 | 1, 019, 850 |
| Thirty-year funding | do | May 1 and Nov. 1. | | 628, 800 | 628, 800 |
| | | | 11, 787, 000 | 9, 375, 650 | 21, 162, 650 |

Stocks and bonds outstanding on which interest has ceased, there being funds for the payment of the principal and interest deposited in the United States Treasury.

| | |
|---|-----------|
| Corporation of Washington, ten-year bonds..... | \$150 00 |
| Corporation of Washington, five per cent. general stock | 1, 340 01 |
| Corporation of Washington, six per cent. general stock | 3, 480 17 |
| | 4, 970 18 |

| | |
|--|-----------------|
| Amount of funded debt retired since July 1, 1878 | 1, 781, 050 00 |
| Reduction in annual interest charged since July 1, 1878 | 104, 209 04 |
| *Issue of District three-sixty-fives, limited by law to \$15,000,000—issue to date | 14, 580, 300 00 |

C. N. JORDAN,
*Treasurer United States.*OFFICE OF THE TREASURER OF THE UNITED STATES,
EX-OFFICIO COMMISSIONER OF THE SINKING-FUND
OF THE DISTRICT OF COLUMBIA,
Washington, September 30, 1886.

C.—REPORT OF THE AUDITOR.

OFFICE OF THE AUDITOR, DISTRICT OF COLUMBIA,
Washington, D. C., November 16, 1886.

GENTLEMEN: I have the honor to submit the following report, showing the receipts and expenditures of the District Government for the fiscal year ending June 30, 1886.

The entire revenues of the District during the fiscal year, including appropriations by Congress, were \$4,656,498.76, as follows, viz:

| | |
|---|--------------|
| Balance on hand July 1, 1885 | \$505,963 20 |
| Received during the year, as per Exhibit A..... | 4,147,344 12 |
| Repayments to appropriations..... | 3,191 44 |
| Total receipts..... | 4,656,498 76 |

The total expenditures during the year, as per Exhibit B, were \$3,854,778.75, leaving a balance of \$801,720.01, from which deduct expenditures from guarantee fund during the fiscal year ending June 30, 1885, \$55,669.66; balance on hand July 1, 1886, \$746,050.35, which is divided under the following heads, viz:

| | |
|--|--------------|
| Subject to general expenses..... | \$642,830 53 |
| Completion of sewerage system..... | 41,435 99 |
| Water fund..... | 33,546 70 |
| Special tax fund..... | 3,767 07 |
| Washington redemption fund..... | 1,220 51 |
| Redemption of tax-lien certificates..... | 2,819 63 |
| Redemption of assessment certificates..... | 272 53 |
| Guarantee fund District of Columbia, act June 11, 1878 | 11,374 54 |
| Policemen's relief fund..... | 4,878 29 |
| Firemen's relief fund..... | 2,063 57 |
| Redemption of Pennsylvania avenue certificates, act July 19, 1876..... | \$176 03 |
| Redemption of Pennsylvania avenue certificates, act July 8, 1870..... | 743 26 |
| Filling grounds south of the Capitol: | |
| Act April 4, 1878..... | \$5 08 |
| Act July 10, 1879..... | 70 08 |
| Act February 4, 1880..... | 60 72 |
| Act April 1, 1882..... | 38 40 |
| | 174 28 |
| Sale of property in Washington and Georgetown, Act March 3, 1881..... | 449 12 |
| General expenses of the District, Act March 3, 1875..... | 292 31 |
| Fire department, act June 22, 1874..... | 49 |
| Surplus fund..... | 5 50 |
| Total..... | 764,050 35 |

The foregoing statement of expenditures, classified under the fiscal years to which they respectively pertain, will be found fully set forth in Exhibit C, which is made part of this report.

The number of checks drawn upon the Treasurer of the United States during the year was 26,497, aggregating the sum of \$2,416,079.95. The increase in the number of checks for the year was 1,815.

The number of audits for the same period was 4,857, a decrease from the previous year of 211. The aggregate sum for which checks were drawn shows a decrease of \$195,849.39.

| | |
|--|----------------|
| Levy of real and personal tax for the fiscal year, as shown by the corrected tax ledgers on file in this office..... | \$1,610,952 05 |
| To which add duplicate payments subject to refund..... | 1,924 28 |
| Fractional overpayments..... | 51 39 |
| Amount of penalty collected..... | 7,830 69 |
| Total..... | 1,620,758 41 |

The amount collected up to and including June 30, 1886, was \$1,398,723.38, leaving a balance delinquent July 1, 1886, of \$222,035.03.

The percentage of collections to that date, exclusive of overpayments and penalties, was as follows:

| | |
|---------------------------------|-------|
| Realty, Washington City..... | 87.99 |
| Realty, Georgetown..... | 85.20 |
| Realty, county..... | 76.10 |
| Personal, Washington City..... | 80.39 |
| Personal, Georgetown..... | 65.18 |
| Personal, county..... | 72.32 |
| Average on the entire levy..... | 86.22 |
| Average realty..... | 87.18 |
| Average personal..... | 79.02 |

Of the delinquent taxes for the fiscal year, due July 1, 1886, there has since been collected, to the 1st of the present month, the sum of \$60,356.26; to which add penalty for non-payment, \$5,812.68; total, \$66,168.94.

As steps have been taken for the consolidation into arrears, or delinquent tax-books, of all outstanding taxes due the District, as recommended in my previous reports, it is respectfully suggested that they be prepared in duplicate, and one set furnished this office. When this work is completed, it will greatly facilitate the settlement of the old accounts of the collector.

It is recommended that the books of assessment for water rents be changed in form, so as to bring the entries of payments for each fiscal year in separate columns, in accordance with the form of the new water-main tax books. This change is understood to be under consideration, and, if adopted, will enable this office to readily verify the receipts of the collector on this account without interfering with the daily use of the books.

The act of Congress approved July 9, 1886 (appropriation act D. C.), provides that all drawback certificates heretofore or hereafter received for general taxes under the acts of June 27, 1879, and July 5, 1884, and paid or deposited in the Treasury, shall be considered and treated as money; and that one-half of the same, less any amount heretofore credited, shall be credited to the District with all other revenues as received upon the books of the Treasury.

The drawback certificates received and deposited in the Treasury have never been entered as part of the revenues of the District for the reason that some differences of opinion have existed as to the effect of previous legislation upon this subject.

The passage of the above-mentioned act, however, seems to leave no further doubt as to the intention of Congress, and that one-half of their amounts, less any amount heretofore credited, must be credited to the District; but as the act did not go into effect until after the close of the fiscal year, the amount for which the District is entitled to credit is not entered as a revenue of the District for the fiscal year just closed.

One-half these drawbacks received and deposited in the Treasury up to and including June 30, 1886, amounts to \$188,126.56, which sum, less the amount which may be required to pay the balance of the sewer debt, will increase the surplus already in the the Treasury to the credit of the District.

The amount which will be required to apply on the sewer debt cannot be definitely determined until a Treasury statement, which is understood to be in course of preparation, is completed.

Official notice has not yet been received from the accounting officers

of the Treasury that this amount has been credited to the District, but this will undoubtedly be done at no distant period.

I take pleasure in commending the employés of this office for the efficiency with which they have in the main performed their respective duties.

Very respectfully,

J. S. TICHENOR,
Auditor District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF CLUMBIA.

A.—Statement of cash receipts of the District of Columbia from July 1, 1885, to June 30, 1886.

| On what account received. | Detail. | Total. | Aggregate. |
|---|----------------|----------------|----------------|
| GENERAL TAXES AND LICENSES. | | | |
| General taxes, including penalties | \$1,657,247 52 | | |
| Licenses | 156,143 27 | | |
| | | \$1,813,390 79 | |
| MARKETS. | | | |
| Eastern Market, rents | 2,649 50 | | |
| Western Market, rents | 5,911 80 | | |
| Georgetown Market, rents | 1,208 16 | | |
| Washington Market Company, franchise rental | 7,500 00 | | |
| Western Market, note account | 416 02 | | |
| | | 17,685 48 | |
| RENT OF DISTRICT PROPERTY. | | | |
| Rent of hay-scales | 829 95 | | |
| Rent of wharves, street termini, and buildings | 3,925 00 | | |
| Rent of fish wharves and stalls | 363 62 | | |
| | | 5,118 57 | |
| FINES. | | | |
| Fines, police court, United States cases | 11,766 92 | | |
| Fines, police court, District of Columbia cases | 26,179 61 | | |
| Fines, criminal court | 1,790 80 | | |
| Fines, appeal cases, through attorney District of Columbia | 348 35 | | |
| | | 40,085 68 | |
| MISCELLANEOUS. | | | |
| Fees for tax certificates | 2,802 00 | | |
| Permit fees, engineer's office | 3,360 00 | | |
| Building permits | 8,571 00 | | |
| Dog tax | 14,124 09 | | |
| Pound fees | 419 75 | | |
| Material furnished | 68 53 | | |
| Sale of old material | 380 26 | | |
| Sale of old horses | 104 40 | | |
| Labor and sale of products, Reform School | 1,055 63 | | |
| Sale of products, Washington Asylum | 25 58 | | |
| Use of steam fire-engine | 15 00 | | |
| Half fees received from inspector gas and meters | 233 75 | | |
| Forfeiture of recognizance | 317 90 | | |
| Forfeited bar deposits (license fund) | 383 34 | | |
| Half surplus from sale of contractors' guarantee bonds | 1,284 24 | | |
| Advertising | 3,510 29 | | |
| Auctioneers' returns | 269 02 | | |
| | | 36,924 78 | |
| Total taxes and revenue for 1886 | | | \$1,813,205 30 |
| Half surplus realized from sale of contractors' guarantee bonds for fiscal year 1885, official notice of which was received after the close of the fiscal year 1885 | | | 9,995 48 |
| SPECIAL AND TRUST FUNDS. | | | |
| Water taxes and rents | 169,613 29 | | |
| Washington redemption fund | 479 79 | | |
| Special-tax fund | 12,448 05 | | |
| Redemption of tax-lien certificates | 216 54 | | |
| Redemption of assessment certificates | 5,614 96 | | |
| Guarantee fund, act June 11, 1873, received in 1885 and 1886 | 89,408 97 | | |
| Policemen's relief fund, act February 23, 1885 | 7,412 77 | | |
| Firemen's relief fund, act February 25, 1885 | 2,305 51 | | |
| | | 287,499 88 | |
| Total special and trust funds | | | 287,499 88 |

116 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

A.—Statement of cash receipts of the District of Columbia, &c.—Continued.

| On what account received. | Detail. | Total. | Aggregate. |
|---|------------------|------------------|------------------|
| ADVANCES BY UNITED STATES. | | | |
| On account of appropriation, act February 25, 1885 | \$1, 716, 643 46 | | |
| On account of completion of the sewerage system, act of June 30, 1884 | 220, 000 00 | \$1, 936, 643 46 | |
| Total amount advanced by United States | | | \$1, 936, 643 46 |
| Grand total of cash receipts..... | | | 4, 147, 344 12 |

B.—Statement of the expenditures of the government of the District of Columbia for the fiscal year ending June 30, 1886.

| Title of appropriations. | Detail. | Total. | Aggregate. |
|---|--------------|--------------|---------------|
| IMPROVEMENTS AND REPAIRS. | | | |
| Repairs to concrete pavements, 1886 | \$45, 258 09 | | |
| Repairs to concrete pavements, 1885 | 3, 796 43 | | |
| Total for repairs to concrete pavements | | \$49, 054 52 | |
| Materials for permit work, 1886 | 46, 508 46 | | |
| Materials for permit work, 1885 | 20, 563 09 | | |
| Total for materials for permit work | | 67, 071 55 | |
| Continuation of surveys of the District with reference to the future extension of streets and avenues, 1886 | | 4, 647 71 | |
| Lateral sewers, 1886 | | 23, 723 04 | |
| Completion of sewerage system, 1885 | | 195, 040 97 | |
| Boundary street sewer, 1885 | 8, 543 00 | | |
| Boundary street sewer, 1881 | 3, 420 77 | | |
| Total for Boundary street sewer | | 11, 963 77 | |
| Work on sundry avenues and streets, and replacement of pavements, 1886 | | 264, 335 51 | |
| Aggregate for improvements, &c..... | | | \$615, 837 07 |
| CONSTRUCTING, REPAIRING, AND MAINTAINING BRIDGES. | | | |
| Ordinary care of Benning's, Anacostia, and Chain Bridges, 1886 | | 3, 380 00 | |
| Maintaining bridges under the control of the Commissioners, 1886 | | 4, 259 93 | |
| Aggregate for bridges..... | | | 7, 639 93 |
| WASHINGTON AQUEDUCT. | | | |
| For engineering, maintaining, and general repairs, 1886 | | | 20, 000 00 |
| CHARITIES AND CORRECTIONS. | | | |
| Washington Asylum: | | | |
| Pay of employes, 1886 | 11, 661 72 | | |
| Contingent expenses, 1886 | 35, 132 03 | | |
| Contingent expenses, 1885 | 874 34 | | |
| Repairs to almshouse, 1885 | 11 38 | | |
| To construct movable track, &c., 1885 | 59 30 | | |
| Conversion of a magazine into a workhouse for females, 1886 | 19, 552 92 | | |
| Total for Washington Asylum | | 67, 291 69 | |
| Georgetown Almshouse: | | | |
| Support of inmates, 1886 | 1, 641 50 | | |
| Support of inmates, 1885 | 147 00 | | |
| Total for Georgetown Almshouse | | 1, 788 50 | |
| Government Hospital for the Insane: | | | |
| Support of inmates, 1886 | 40, 096 50 | | |
| Support of inmates, 1885 | 12, 609 00 | | |
| Total for insane poor | | 52, 705 50 | |
| Reform School, 1886 | | 36, 616 00 | |
| Columbia Hospital for Women and Children and Lying-in Asylum, 1886 | | 15, 000 00 | |
| Women's Christian Association, 1886 | | 5, 000 00 | |
| Children's Hospital, 1886 | | 5, 077 56 | |
| St. Ann's Infant Asylum, 1886 | | 5, 000 00 | |
| Maintenance of Church Orphanage, 1886 | | 1, 500 00 | |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 117

B.—Statement of the expenditures of the government, &c.—Continued.

| Title of appropriations. | Detail. | Total. | Aggregate. |
|---|------------|-------------|--------------|
| CHARITIES AND CORRECTIONS—continued. | | | |
| Industrial Home School, 1886..... | | \$12,020 00 | |
| Building for Homeopathic Hospital, 1886..... | | 15,000 00 | |
| National Association for Destitute Colored Women and Children, 1886..... | \$6,500 00 | | |
| Building for National Association for Destitute Colored Women and Children, 1886..... | 17,999 05 | | |
| Building for National Association for Destitute Colored Women and Children, 1885..... | 9 98 | | |
| Total for National Association, &c..... | | 24,509 03 | |
| Transportation of paupers and prisoners, 1886..... | 3,108 79 | | |
| Transportation of paupers and prisoners, 1885..... | 14 72 | | |
| Total for transportation of paupers, &c..... | | 3,123 51 | |
| Relief of the poor, 1886..... | 13,786 30 | | |
| Relief of the poor, 1885..... | 411 75 | | |
| Total for relief of the poor..... | | 14,198 05 | |
| Aggregate for charities, &c..... | | | \$258,829 84 |
| SALARIES AND CONTINGENT EXPENSES, OFFICES DISTRICT OF COLUMBIA. | | | |
| Executive office: | | | |
| Pay of employes, 1886..... | 18,744 00 | | |
| Contingent expenses, 1886..... | 2,496 14 | | |
| Contingent expenses, 1885..... | 369 58 | | |
| Total for executive office..... | | 21,609 72 | |
| Auditor's office: | | | |
| Pay of employes, 1886..... | 16,113 05 | | |
| Contingent expenses, 1886..... | 299 72 | | |
| Total for auditor's office..... | | 16,412 77 | |
| Assessor's office: | | | |
| Pay of employes, 1886..... | 12,600 00 | | |
| Contingent expenses, 1886..... | 987 26 | | |
| Contingent expenses, 1885..... | 92 12 | | |
| Total for assessor's office..... | | 13,679 38 | |
| Collector's office: | | | |
| Pay of employes, 1886..... | 16,500 00 | | |
| Contingent expenses, 1886..... | 788 30 | | |
| Total for collector's office..... | | 17,288 30 | |
| Attorney's office: | | | |
| Pay of employes, 1886..... | 8,112 00 | | |
| Rent of office, 1886..... | 100 00 | | |
| Contingent expenses, 1886..... | 336 61 | | |
| Contingent expenses, 1885..... | 22 80 | | |
| Total for attorney's office..... | | 8,571 41 | |
| Sinking-fund office: | | | |
| Pay of employes, 1886..... | 2,224 70 | | |
| Contingent expenses, 1886..... | 53 35 | | |
| Contingent expenses, 1885..... | 15 65 | | |
| Total for sinking fund office..... | | 2,293 70 | |
| Coroner's office: | | | |
| Pay of coroner, 1886..... | 1,800 00 | | |
| Contingent expenses, 1886..... | 463 95 | | |
| Contingent expenses, 1885..... | 5 00 | | |
| Contingent expenses, 1884..... | 1 00 | | |
| Total for coroner's office..... | | 2,269 95 | |
| Engineer's office: | | | |
| Pay of employes, 1886..... | 59,222 33 | | |
| Contingent expenses, 1886..... | 4,831 96 | | |
| Contingent expenses, 1885..... | 93 88 | | |
| Total for engineer's office..... | | 64,148 17 | |
| Inspector of gas and meters office, necessary expenses and maintaining apparatus, 1886..... | | | 698 50 |
| Fuel, ice, gas, insurance, and repairs to District offices, and markets, 1886..... | 4,996 92 | | |
| Fuel, ice, gas, insurance, and repairs to District offices, and markets, 1885..... | 6 68 | | |
| Total for fuel, ice, gas, &c..... | | 5,003 60 | |
| Aggregate for salaries and contingent expenses..... | | | 151,975 50 |

118 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

B.—Statement of the expenditures of the government, &c.—Continued.

| Title of appropriations. | Detail. | Total. | Aggregate. |
|---|------------|-------------|--------------|
| STREETS. | | | |
| Sweeping, cleaning, and sprinkling streets and avenues, 1886..... | | \$42,718 05 | |
| Cleaning alleys, 1886..... | \$8,745 01 | | |
| Cleaning alleys, 1885..... | 290 62 | | |
| Total for cleaning alleys..... | | 9,035 63 | |
| Current repairs to streets, avenues, and alleys, 1886..... | 24,897 83 | | |
| Current repairs to streets, avenues, and alleys, 1885..... | 67 55 | | |
| Total for current repairs to streets, &c..... | | 24,965 38 | |
| Current repairs to county roads and suburban streets, 1886..... | 37,707 82 | | |
| Current repairs to county roads and suburban streets, 1885..... | 4 96 | | |
| Total for repairs to county roads, &c..... | | 37,712 78 | |
| Cleaning and repairing lateral sewers and basins, 1886..... | 19,106 18 | | |
| Cleaning and repairing lateral sewers and basins, 1885..... | 54 30 | | |
| Total for cleaning, &c., lateral sewers and basins..... | 19,160 48 | | |
| Parking commission, 1886..... | | | |
| Parking commission, 1885..... | | | |
| Total for parking commission..... | 288 31 | 16,870 20 | |
| Cleaning tidal sewers and Rock Creek basin, 1886..... | 3,767 69 | | |
| Cleaning tidal sewers, 1885..... | 10 16 | | |
| Total for cleaning tidal sewers, &c..... | | 3,777 85 | |
| Purchase of and repairs to pumps, 1886..... | | 2,906 37 | |
| Street lamps, 1886..... | 83,514 32 | | |
| Street lamps, 1885..... | 6,882 25 | | |
| Total for street lamps..... | | 90,396 57 | |
| Aggregate for streets..... | | | \$247,543 31 |
| METROPOLITAN POLICE. | | | |
| Pay of officers and members, 1886..... | | 307,966 33 | |
| Rent of station-houses and headquarters, 1886..... | 1,920 00 | | |
| Rent of station-houses and headquarters, 1885..... | 50 00 | | |
| Total for rent..... | | 1,970 00 | |
| Repairs to station-houses, 1886..... | | | |
| Repairs to station-houses, 1885..... | 1,075 02 | | |
| Total repairs to station houses..... | 75 | 1,075 77 | |
| Miscellaneous and contingent expenses, 1886..... | 10,381 57 | | |
| Miscellaneous and contingent expenses, 1885..... | 330 45 | | |
| Total for miscellaneous expenses..... | | 10,712 02 | |
| Purchase of 10 Gamewell alarm-telegraph and telephone stations, 1886..... | | | |
| Purchase of 20 Gamewell alarm-telegraph and telephone stations, 1885..... | 2,600 00 | | |
| Total for alarm stations..... | 700 00 | | |
| Fuel for station-houses, 1886..... | | 3,300 00 | |
| Purchase of site and erection of new station-house, Seventh Precinct, 1886..... | | 1,547 85 | |
| Aggregate for police department..... | | 15,000 00 | |
| FIRE DEPARTMENT. | | | |
| Pay of officers and members, 1886..... | | 83,380 24 | |
| Repairs to engine houses, 1886..... | | 994 48 | |
| Repairs to apparatus and new appliances, 1886..... | 3,835 73 | | |
| Repairs to apparatus, 1885..... | 199 61 | | |
| Total for repairs to apparatus, &c..... | | 4,035 34 | |
| Purchase of hose, 1886..... | | | |
| Purchase of hose, 1885..... | 2,124 10 | | |
| Total for purchase of hose..... | 126 00 | | |
| Contingent expenses, 1886..... | | | |
| Contingent expenses, 1885..... | 7,206 80 | 2,250 10 | |
| Total for contingent expenses..... | 54 08 | | |
| Fuel, 1886..... | | 7,260 97 | |
| Purchase of horses, 1886..... | | 1,558 92 | |
| Forage, 1886..... | | 2,480 00 | |
| Aggregate for fire department..... | | 4,802 92 | |
| | | | 106,762 97 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 119

B.—Statement of the expenditures of the government, &c.—Continued.

| Title of appropriations. | Detail. | Total. | Aggregate. |
|---|------------|------------|-------------|
| TELEGRAPH AND TELEPHONE SERVICE. | | | |
| Pay of employes, 1886 | | \$8,440 00 | |
| General expenses, 1886 | \$5,143 94 | | |
| General expenses, 1885 | 960 87 | | |
| Total for general expenses | | 6,124 81 | |
| Aggregate for telegraph and telephone service | | | \$14,564 81 |
| COURTS. | | | |
| Police court: | | | |
| Pay of employes, 1886 | 9,318 00 | | |
| Contingent expenses, 1886 | 2,442 82 | | |
| Contingent expenses, 1885 | 83 60 | | |
| Contingent expenses, 1884 | 7 50 | | |
| United States marshal's fees, 1886 | 1,400 00 | | |
| Total for police court | | 13,251 92 | |
| Judicial expenses, 1886 | 1,131 36 | | |
| Judicial expenses, 1885 | 15 41 | | |
| Total for judicial expenses | | 1,146 77 | |
| Aggregate for courts | | | 14,398 69 |
| PUBLIC SCHOOLS. | | | |
| Support: | | | |
| Pay of officers, teachers, and janitors, 1886 | 424,831 51 | | |
| Pay of officers, teachers, and janitors, 1885 | 5 00 | | |
| Total for pay of officers, &c | | 424,836 51 | |
| Fuel, 1886 | 13,474 89 | | |
| Fuel, 1885 | 47 04 | | |
| Total for fuel | | 13,521 93 | |
| Repairs to and improvement of school buildings and grounds, 1886 | 19,859 19 | | |
| Repairs to school buildings, 1885 | 34 75 | | |
| Total for repairs to building, &c | | 19,893 94 | |
| Contingent expenses, 1886 | 19,104 81 | | |
| Contingent expenses, 1885 | 2 72 | | |
| Contingent expenses, 1884 | 553 00 | | |
| Total for contingent expenses | | 19,660 53 | |
| Rent of school rooms, 1886 | | 6,916 66 | |
| Aggregate for support of public schools | | | 484,829 57 |
| BUILDINGS AND GROUNDS, PUBLIC SCHOOLS. | | | |
| Purchase of sites and erection of new school buildings, 1886 | | 60,000 00 | |
| Purchase of sites and erection of new school buildings, 1885 | | 5,952 00 | |
| Purchase of sites and erection of school buildings from Holmead's cemetery fund | | 14,533 15 | |
| Aggregate for buildings and grounds | | | 80,485 15 |
| MISCELLANEOUS EXPENSES. | | | |
| Repairs to and replacement of hay scales, 1886 | 75 38 | | |
| Repairs to and replacement of hay scales, 1885 | 162 00 | | |
| Total for hay scales | | 237 38 | |
| General advertising, 1886 | 2,053 94 | | |
| General advertising, 1885 | 8 00 | | |
| Total for general advertising | | 2,061 94 | |
| Books for register of wills, printing, checks, damages, and miscellaneous items, 1886 | 2,227 30 | | |
| Books for register of wills, printing, checks, damages, and miscellaneous items, 1885 | 83 32 | | |
| Total for books for register of wills, &c | | 2,310 62 | |
| Contingent expenses, District of Columbia, 1886 | 625 00 | | |
| Contingent expenses, District of Columbia, 1885 | 30 00 | | |
| Total for contingent expenses | | 655 00 | |
| Rent of District offices, 1886 | | 3,600 00 | |
| Redemption of certificates of indebtedness, 1886 | | 366 96 | |
| Maintaining public order, 1885 | | 65 00 | |
| Expenses of assessing real property, 1886 | | 10,185 60 | |
| Aggregate for miscellaneous expenses | | | 19,482 50 |

120 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

B.—Statement of the expenditures of the government, &c.—Continued.

| Title of appropriations. | Detail. | Total. | Aggregate. |
|---|------------|--------------|--------------|
| HEALTH DEPARTMENT. | | | |
| Pay of employes, 1886..... | | \$23,978 00 | |
| Contingent expenses, 1886..... | \$3,968 49 | | |
| Contingent expenses, 1885..... | 506 83 | | |
| Total for contingent expenses..... | | 4,475 32 | |
| Erecting new iron pens for dogs at the pound, 1886..... | | 193 00 | |
| Removal of garbage, 1886..... | | 15,000 00 | |
| Aggregate for health department..... | | | \$43,646 32 |
| INTEREST AND SINKING FUND. | | | |
| Interest and sinking fund on the funded debt, 1886..... | | | 1,213,947 97 |
| WATER DEPARTMENT. | | | |
| Pay of employes, 1886..... | | 9,339 00 | |
| Contingent expenses, 1886..... | 2,148 63 | | |
| Contingent expenses, 1885..... | 109 83 | | |
| Total for contingent expenses..... | | 2,258 46 | |
| General expenses, pipe distribution, &c., 1886..... | 58,655 72 | | |
| General expenses, pipe distribution, &c., 1885..... | 17,472 69 | | |
| Total for general expenses, &c..... | | 76,128 41 | |
| Interest and sinking fund on water-stock bonds, 1886..... | 44,610 00 | | |
| Interest and sinking fund on account for increasing water-supply, 1886..... | 55,047 27 | | |
| Total for interest and sinking fund..... | | 99,657 27 | |
| Refunding erroneously paid water-rents, &c..... | | 385 08 | |
| Aggregate for water department..... | | | 187,768 22 |
| SPECIAL AND TRUST FUNDS. | | | |
| Guarantee fund, act June 11, 1878..... | | 22,364 77 | |
| Refunding erroneously paid taxes, &c..... | | 2,553 50 | |
| Washington special-tax fund..... | | 11,849 43 | |
| Redemption of tax-lie certificates..... | | 5,636 99 | |
| Redemption of assessment certificates..... | | 216 54 | |
| Washington redemption fund..... | | 97 28 | |
| Policemen's relief fund, District of Columbia..... | | 2,534 48 | |
| Firemen's relief fund, District of Columbia..... | | 241 94 | |
| Aggregate for special and trust fund..... | | | 45,494 93 |
| Grand aggregate of expenditures for the fiscal year ending June 30, 1886..... | | | 3,854,778 75 |
| The above expenditures may be classified as follows: | | | |
| From United States appropriations: | | | |
| Support of the government of the District of Columbia..... | | 1,705,970 74 | |
| Completion of sewerage system..... | | 195,040 97 | |
| Total from United States..... | | | 1,901,011 71 |
| From District of Columbia revenues..... | | | 1,708,524 24 |
| From proceeds of the sale of Holmead's Cemetery..... | | | 14,533 15 |
| From water fund of the District of Columbia..... | | | 187,768 22 |
| From special and trust funds..... | | | 42,941 43 |
| Total..... | | | 3,854,778 75 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 121

C.—Statement of the expenditures of the government of the District of Columbia for the fiscal year ending June 30, 1886, showing the general appropriations and fiscal years to which the expenditures are applicable.

| | Fiscal year ending June 30, 1881. | Fiscal year ending June 30, 1884. | Fiscal year ending June 30, 1885. | Fiscal year ending June 30, 1886. | Special and trust funds. | Total. |
|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-----------------------------|--------------|
| Improvement and repairs | \$3,420 77 | | \$31,502 52 | \$384,472 81 | | \$420,796 10 |
| Bridges | | | 7,639 93 | | | 7,639 93 |
| Washington Aqueduct | | | 20,000 00 | | | 20,000 00 |
| Washington Asylum | | 945 02 | 46,793 75 | | | 47,738 77 |
| Buildings, Washington Asylum | | | 19,552 92 | | | 19,552 92 |
| Georgetown Almshouse | | | 1,641 50 | | | 1,788 50 |
| Government Hospital for the Insane | | | 12,609 00 | 40,096 50 | | 52,705 50 |
| Reform School | | | | 36,616 00 | | 36,616 00 |
| Transportation of paupers and prisoners | | | 14 72 | 3,108 79 | | 3,123 51 |
| Relief of the poor | | | 411 75 | 13,786 30 | | 14,198 05 |
| Columbia Hospital for Women and Children | | | | 15,000 00 | | 15,000 00 |
| Women's Christian Association | | | | 5,000 00 | | 5,000 00 |
| National Association for Destitute Colored Women and Children | | | | 6,500 00 | | 6,500 00 |
| Building for National Association for Destitute Colored Women and Children | | | 9 98 | 17,999 05 | | 18,009 03 |
| Children's Hospital | | | | 5,077 56 | | 5,077 56 |
| St. Ann's Infant Asylum | | | | 5,000 00 | | 5,000 00 |
| Maintenance of Church Orphanage | | | | 1,500 00 | | 1,500 00 |
| Industrial Home School | | | | 12,020 00 | | 12,020 00 |
| Building for Homeopathic Hospital | | | | 15,000 00 | | 15,000 00 |
| Salaries and contingent expenses offices | | \$1 00 | 603 71 | 151,368 79 | | 151,975 50 |
| Expenses of assessing real property | | | | 10,185 60 | | 10,185 60 |
| Streets | | | 7,598 15 | 239,045 16 | | 247,543 31 |
| Metropolitan police | | | 1,081 20 | 325,490 77 | | 326,571 97 |
| Buildings, Metropolitan police | | | | 15,000 00 | | 15,000 00 |
| Maintaining public order | | | 65 00 | | | 65 00 |
| Fire department | | | 379 69 | 106,383 28 | | 106,762 97 |
| Telegraph and telephone service | | | 980 87 | 13,583 94 | | 14,564 81 |
| Courts | 7 50 | | 99 01 | 14,292 18 | | 14,398 69 |
| Public schools | 553 00 | | 89 51 | 484,187 06 | | 484,829 57 |
| Buildings and grounds, public schools | | | 20,485 15 | 60,000 00 | | 80,485 15 |
| Miscellaneous expenses | | | 253 32 | 7,956 62 | | 8,209 94 |
| Health department | | | 506 83 | 43,139 49 | | 43,646 32 |
| Interest and sinking fund | | | | 1,213,947 97 | | 1,213,947 97 |
| Contingent expenses | | | 30 00 | 625 00 | | 655 00 |
| Completion of sewerage system | | | 195,040 97 | | | 195,040 97 |
| Redemption of certificates of indebtedness | | | | 366 96 | | 366 96 |
| Water department | | | 17,582 52 | 170,185 70 | | 187,768 22 |
| Guarantee fund, act June 11, 1878 | | | | | \$22,364 77 | 22,364 77 |
| Refunding erroneously paid taxes | | | | | 2,553 50 | 2,553 50 |
| Washington special-tax fund | | | | | 11,849 43 | 11,849 43 |
| Redemption of tax-lien certificates | | | | | 5,636 99 | 5,636 99 |
| Redemption of assessment certificates | | | | | 216 54 | 216 54 |
| Washington redemption fund | | | | | 97 28 | 97 28 |
| Policemen's relief fund | | | | | 2,534 48 | 2,534 48 |
| Firemen's relief fund | | | | | 241 94 | 241 94 |
| Total | 3,420 77 | 561 50 | 291,837 92 | 3,513,463 63 | 45,494 93 | 3,854,778 75 |

D.—REPORT OF OPERATIONS OF THE ENGINEER DEPARTMENT,

UNDER THE DIRECTION OF COL. WILLIAM LUDLOW, CORPS OF ENGINEERS, U. S. A.,
ENGINEER COMMISSIONER OF THE DISTRICT OF COLUMBIA.

A.—REPORT OF CAPTAIN THOMAS W. SYMONS, CORPS OF ENGINEERS
U. S. A., ASSISTANT TO THE ENGINEER COMMISSIONER, DISTRICT OF
COLUMBIA.

OFFICE OF THE ENGINEER COMMISSIONER,
Washington, D. C., December 3, 1886.

SIR: I have the honor to submit the following report of the operations of the Engineer Department, over which you have given me supervision, for the fiscal year ending June 30, 1886.

On the 6th of June I reported to you, pursuant to Special Order No. 130, paragraph 8, Headquarters of the Army, A. G. O., June 5, 1886, relieving Lieut. C. McD. Townsend of his duties.

Summary statement of operations.

| Description. | Expenditure for fiscal year ending June 30, 1886. | Appropriation for fiscal year ending June 30, 1887. | Commissioners' estimate for fiscal year ending June 30, 1888. |
|--|---|---|---|
| Engineer department: | | | |
| Salaries | \$59,222 33 | \$59,890 00 | \$58,220 00 |
| Contingent expenses | 5,000 00 | 5,000 00 | 5,000 00 |
| Office of inspector of gas and meters, contingent expenses | 702 70 | 800 00 | 800 00 |
| Water department: | | | |
| Salaries | 9,339 00 | 9,539 00 | 15,936 00 |
| Contingent expenses | 2,373 60 | 2,400 00 | 3,000 00 |
| Pumping expenses and pipe distribution | 69,475 78 | 75,000 00 | 125,000 00 |
| Two steam boilers for high service in Washington and Georgetown | | | 35,000 00 |
| Interest and sinking fund on account of water supply | 55,047 27 | 57,239 02 | 76,655 69 |
| Cleaning and repairing lateral sewers and basins | 44,610 00 | 44,610 00 | 44,610 00 |
| Cleaning and repairing sewers and basins | 20,000 00 | | 35,000 00 |
| Lateral sewers | | 25,000 00 | |
| For sewers | 24,385 04 | | |
| Completion of sewerage system of District of Columbia | | 45,000 00 | |
| Replacing obstructed sewers | 211,095 47 | 20,000 00 | 10,000 00 |
| Suburban sewers | | | 25,000 00 |
| Main and pipe sewers | | | 70,000 00 |
| Cleaning tidal sewers and Rock Creek basin | | | |
| Public bay scales, repair and replacement of | 5,000 00 | | 750 00 |
| Pumps, purchase and repair of | 75 38 | 500 00 | 3,000 00 |
| Lighting streets, &c. | 2,989 14 | 3,000 00 | 100,000 00 |
| Electric light | 98,672 49 | 100,000 00 | 20,000 00 |
| For the protection and improvement of the harbor and river front, enforcement of laws and regulations, and construction of wharves and buildings | | | 10,000 00 |
| Total | 607,988 20 | 447,978 02 | 637,971 69 |

WATER DEPARTMENT.

Since the beginning of the fiscal year 1886-'87 a change has been made in the *personnel* of the Water Office by the appointment of Mr. H. F. Hayden as superintendent and Mr. John J. Beall as chief clerk. The result has been a marked benefit to the department.

Receipts from July 1, 1885, to June 30, 1886:

| | |
|------------------------|--------------|
| Water rents | \$124,968 18 |
| Water-main taxes | 36,099 04 |
| Water-taps | 5,090 00 |
| Water permits | 3,456 07 |

| | |
|-------------|------------|
| Total | 169,613 29 |
|-------------|------------|

| | |
|------------------------------|-----------|
| Water-main tax arrears | 45,379 39 |
| Interest on same | 15,364 15 |

| | |
|---------------------|-----------|
| Total arrears | 60,743 54 |
|---------------------|-----------|

Expenditures from July 1, 1885, to June 30, 1886:

| | |
|--|-----------|
| Salaries | 9,339 00 |
| Contingent expenses | 2,148 63 |
| Pumping expenses and pipe distribution | 58,655 72 |
| Interest and sinking fund on water-stock bonds | 44,610 00 |
| Interest and sinking fund for increasing water supply, act July 15, 1882 | 55,047 27 |

| | |
|--|------------|
| | 169,800 62 |
|--|------------|

| | |
|--|-----------|
| Water-main tax levied during year 1885-'86 | 45,090 20 |
|--|-----------|

Summary statement of distributing system.

| Mains, valves, &c. | Laid before July 1, 1885. | Laid during 1885-'86. | Total laid to June 30, 1886. |
|--|------------------------------|--------------------------|---------------------------------|
| | <i>Feet.</i> | <i>Feet.</i> | <i>Feet.</i> |
| 75-inch diameter | 662 | | 662 |
| 48-inch diameter | 6,848 | | 6,848 |
| 38-inch diameter | 16,500 | | 16,500 |
| 30-inch diameter | 20,150 | | 20,150 |
| 20-inch diameter | 10,350 | | 10,350 |
| 12-inch diameter | 68,030 | 1,938 | 69,968 |
| 10-inch diameter | 5,525 | 791 | 6,316 |
| 8-inch diameter | 5,925 | | 5,925 |
| 6-inch diameter | 603,265 | 35,192 | 638,457 |
| 6 and 4 inch mains to fire-plugs | 26,280 | | 26,280 |
| 4-inch diameter and smaller | 108,030 | | 108,030 |
| 3-inch diameter | | 6,623 | 6,623 |
| Total | 871,565 | 44,544 | 916,109 |
| Stop-valves | 1,118 | 65 | 1,253 |
| Fire-plugs | 720 | 47 | 767 |
| Hydrants | 236 | 5 | *236 |
| Services | 23,508 | 2,014 | 25,522 |
| Taps | 18,308 | 1,747 | 20,055 |

* 6 old ones abandoned.

From many localities in the city have come bitter complaints of the scarcity of water, and although every effort has been made to distribute the water to all parts in an equitable manner, the result has neither been satisfactory to this office nor to the people concerned. All the water reaching Capitol Hill passes to it through the K and L streets and Pennsylvania avenue mains, and the drain on these mains in the lower grounds is so great that upon the hill it is impossible at times to get water to flow even into the basements of the houses.

There is no pumping station by means of which relief can be afforded to Capitol Hill, and a proper water supply has been unknown there for years. On account of the growth of the city and the great number of new water takers, this condition of things has been growing worse and worse from year to year.

Southwest and Southeast Washington have a very inadequate supply on account of their distance from the large supply mains on K and L streets, and because there is no through line of smaller supply mains for their particular use. At the Arsenal the pressure on the main is only 17 pounds, notwithstanding it is nearly on a level with the river and on a 12-inch main leading directly down Four-and-a-half street from the 30-inch main on Massachusetts avenue and the 12-inch main on Pennsylvania avenue. At the corner of Fourteenth and B streets southwest, the pressure is only 7 pounds, and the same at the corner of Thirteenth and B streets southwest. At the navy-yard, on another 12-inch main, the pressure is only 14 pounds.

In the northern part of the city the water supply is also exceedingly defective on account of the elevation of the ground and the drain on the mains. The pumping station on U street between Sixteenth and Seventeenth, supplies in a partial manner the wants of the more elevated part. The water for this pumping station comes by the 12-inch main from L and Twenty-second, along Twenty-second street, Boundary, and U street, and the primary pressure is so little that sufficient water does not reach the pump, and in consequence the service of the station is very much crippled. There is the greatest difficulty in fixing the limits between the high and low services, as the people on the low service are continually asking to be put on the high service, and the people on the high service are continually complaining of an inadequate supply of water. There are many squares in the upper part of the city where the pressure is only 4 to 12 pounds, and in some cases there is absolutely no pressure during certain hours of the day. A 20-inch main has been purchased and will be laid from the 36-inch main on L street up Seventeenth to U street, to give a greater supply to the pump.

There can be no decided betterment of the water service, however, until the works for the improvement of the water supply are finished. The time when this will be accomplished is looked forward to with longing eyes by many thousands of the people of Washington. These works should be completed in the shortest possible time, and it is to be hoped that no more enforced delays will occur in the conduct of the work.

The most rigorous efforts possible have been made by the water department through its inspectors to stop the waste of water. These inspectors are kept busy whenever possible, going from house to house examining the water fixtures and determining as to the existence of leaks, or wasteful habits on the part of the occupants. A great many leaks are discovered and repaired by orders from the water office. The present system of exacting a penalty for willful waste by taking out a warrant for an offender and taking him before the police court is very unsatisfactory. In far too many cases the offender is simply warned not to do it again and allowed to depart. The heart for work is taken out of the inspectors by such disposition of plain cases. A very great drawback to the system is the time of the inspector occupied in getting out a warrant and appearing as a witness. For every offender he must spend the greater part of a day away from his district.

I would recommend the abolishment of this system and the establishment of another which shall be entirely in the hands of the water department. The system proposed being that where any one offends

against the laws and regulations governing the use of water by allowing it willfully to run to waste, or persistently neglects to repair leaky pipes or fixtures, that the water department shall have the power to cut off the water after twenty-four hours' notice, and not restore it until leaks are repaired and fixtures put in proper order, and a penalty of from \$2 to \$5 paid for cutting off and turning on the water.

I would recommend further that a sufficient number of meters be purchased, and whenever the department has reason to believe that water is being wasted or that it is being used in excessive quantities, or that hidden leaks exist, a meter be placed in the premises for the purpose of solving the question absolutely. If water is found to flow in quantity beyond that which the greatest liberality should allow, it would indicate either a leak, or waste, and the proper remedy could be applied by hunting out and fixing the leak or compelling the payment for wasted water at meter rates. The meters would thus be used as inspectors.

I would also, for the purpose of determining the much discussed question of water waste, recommend that meters be placed in houses of various classes in different sections of the city where varying pressure exists to determine how much water is used for domestic purposes. This would have the effect of settling whether the enormous amount of water brought to the city is wasted by the people using it in excessive quantities (150 gallons per capita per day) or through a multitude of small leaks in mains and service pipes. Pressure gauges have been ordered to be erected in the various fire and police stations, and records taken daily. Much valuable information in regard to the distribution of water will be gained thereby.

I would also call your attention to the enormous and wasteful use of water in the public buildings of the General Government in the city. While I would not be understood under any circumstances as wishing to interfere with the full and free use for all its legitimate purposes of the water brought into the city by the General Government, I do think that some systematic control should be exercised over the water supply of all public buildings into which the Potomac water is introduced, to prevent the needless running away of large quantities of water. It should be within the power of some officer of the General Government to make and enforce regulations to attain the above end, in the Capitol and the buildings of all the Executive Departments.

WATER RENTS.

The existing schedule of water rents is not entirely suited to the present uses of water, and not entirely equitable, and much work has been done in compiling a new schedule which shall more perfectly fulfill its purpose. This will be completed as soon as possible, and if approved by the Commissioners will go into effect for the next water year.

The income derived by the water department from all sources is insufficient to meet its requirements, and must be increased, and I can see no good reason why it should not be done at once.

There are a number of reasons for this shortcoming, the principal one being the heavy expense thrown on the department by the construction of the works for the improvement of the water supply, the dam at Great Falls, extension of aqueduct, and construction of new reservoir.

In order to bring about a proper and equitable distribution of water, more large supply mains must be laid.

A 20-inch main is to be laid on Seventeenth street from L to U streets, to take a better supply to the pumping station on U between

Sixteenth and Seventeenth streets. This, it is intended, shall be ultimately extended to the Champlain avenue shaft of the new tunnel, and water supplied to the northwest section of the city through it with a minimum loss of head.

A 10-inch main has been laid from New Jersey avenue and L street eastwardly along L street to Second street east, for the purpose of giving a better supply to the northeastern section.

Large mains must be laid for the southeastern and southwestern sections of the city. These are imperatively needed. The water for the southeastern section must be separated from the Capitol Hill supply on account of the great difference of level.

The construction of the new Congressional Library Building will also throw an additional expense upon the water department, as it will be necessary to change the location of several important mains.

The development of the city into the country outside of the boundary necessitates the extension of the supply and service mains in these regions.

The pumping station on U street, between Sixteenth and Seventeenth streets northwest, is very faultily located, and is on leased property, the lease of which expires in 1888. In all probability it will not be practicable, as it will not be desirable, to renew this lease, and another pumping station must be constructed.

The Georgetown high-service pumping station is in a very dilapidated condition.

In both these pumping stations a single pump is located, upon the proper performance of which large sections of the city are dependent. These pumps are both old and worn, and not of the highest excellence, and liable to break down at any time.

Estimates have been made and it is desired to put in a duplicate pumping engine at each station, in order that such great interests may not hang by such a slender thread.

When the new aqueduct extension is completed it will, in my opinion, be best to discontinue both the present pumping stations and build one near the Rock Creek aqueduct shaft. A large station at this point would be readily provided with fuel, would be practically in the center of the high grounds to be supplied which circle around from Georgetown to Columbia Heights and the Soldiers' Home. The advantages of concentrating all the high-service pumping plant at one point is evident when its economy in attendance is considered. Water would reach a pumping station so situated without any loss of head, which must result if a pumping station is located where it can only get its supply through a long line of pipe. Another and a very important reason for locating a pumping station at or near the Rock Creek shaft is that it could be used to great advantage in case of any accident to the tunnel requiring it to be cleared of water. The new pumping engines asked for, to be temporarily placed at the existing stations, would be equally useful and applicable at the proposed central station on Rock Creek.

New service mains are being asked for in every direction, and a large amount of money must be expended therefor in order that the water distribution may keep pace with the growth of the city.

I have the honor to recommend that hereafter, in laying these service mains, the practice of laying a main in the middle of the street for the service of both sides be wholly discontinued and that a service pipe be placed on both sides under the sidewalk. This will be more expensive than the present system in first cost, but will cost less in the end and be much more convenient and desirable in every way. Nothing

should be put in under the sheet asphalt pavements if it is possible to avoid it, as cuts in them can never be put in as good condition as before.

There is another very important reason why water pipes should not be under the sheet pavement, and that is, that in case of a leak it may be months before it is discovered, if it is discovered at all. It is my belief that a considerable proportion of the water wasted in this city is lost from leaks in the mains and service pipes under these sheet pavements, the water from which leaks cannot rise to the surface and develop itself, but finds its way into the nearest sewer.

A recent experience on L street northwest, between Twelfth and Thirteenth streets, illustrates this. A large break occurred in the street, the asphalt pavement dropping down into a hole from which the earth had been washed. This hole was about 6 feet in diameter and 6 feet deep. Investigation showed that the service pipe was rotten and broken and the water had been running for months, carrying the surrounding earth into a sewer near at hand. Ultimately enough earth was taken away to cause the pavement to sink and the leak was discovered. Many of the old mains laid by the Board of Public Works are of very thin and poor iron and are improperly calked. A great many of the contract services put in by the same old Board are of composition metal of the basest sort, which is now in a rotten condition and devoid of the necessary strength.

The effect of such material and such work must necessarily be to cause a multitude of little leaks, which amount to an immense quantity in the aggregate.

In my opinion the great wastage of water which has been charged to the people of Washington is very largely due to the imperfect condition of the distribution system. When the new works are put into operation and the head of water largely increased throughout the city, it is believed that many other leaks will be developed and old ones aggravated.

The water department may surely count upon being at a very considerable ultimate expense for putting its distribution system in good order.

All these things, combined with the fact that last year the expenditures exceeded the receipts by \$187.33, and the year before by \$19,177.74, and that the receipts of the water department must be the only dependence for its expenditures, convince me that it is the part of wisdom in making out the new schedule to increase the rates so that the revenues will be increased sufficiently. With an increase of 10 to 15 per cent., which will be sufficient, the rates will be lower than they are in any other city in the world of which we have record.

I would also recommend that after the close of the present fiscal year all operations of the water department involving the supply of water from the mains to the private premises of water takers be carried on entirely by the department. In this way the best of work and the best of fixtures will be assured and a fruitful source of water waste and trouble avoided. All this work can be done at the same time that the tap is put in, which is now done by the water department, and should of course be at the expense of the premises supplied.

I wish to call your attention to the desirability of changing the law requiring a majority of the property fronting on a street, avenue, or alley to petition for a water main in order that a water main be laid. This law works great hardship at times and causes a great amount of work to this office and of annoyance to the people who are improving the city and desire water facilities. The law should give the Commis-

sioners of the District the power to lay mains and levy assessments when in their judgment such course is necessary for the public good.

I would also state that, in my opinion, the water-main tax should be increased to $1\frac{1}{2}$ cents per square foot instead of $1\frac{1}{4}$, as at present. With the large-size mains in use and the extreme desirability and necessity of laying them on both sides of the streets, the present rate is not sufficient to cover the cost. The fund derived from this source also should pay some of the expense incidental to laying the large supply mains.

Improved taps, stop-cocks, water-boxes, hydrants, &c., are being prepared for submission, which, if adopted, it is believed will have a decided tendency to improve the efficiency of the department.

OFFICE ADMINISTRATION ON THE WATER DEPARTMENT.

I have to recommend that a very decided change be made in the method of book-keeping in this department, whereby it can be brought into proper co-relation with the offices of the collector of taxes and the auditor, and a complete and proper check kept. A duplicate set of books should be made out for the water-rent accounts, one set for the water office and one for the auditor's office. These books should be prepared in such a way that they will be good for five years.

The practice of sending out water-rent bills should be discontinued and people should come to the office for water-rent bills, as they do for the tax bills. At present half of the water bills have to be made out twice, thus throwing a great deal of unnecessary work upon the department.

The records of the water department in regard to the location of mains, stop-valves, hydrants, fountains, &c., is incomplete, and in some cases inaccurate. A draftsman has been employed, who is kept busy getting these records into proper shape. The records of the office were very much behind in regard to water-main tax arrears, and a special clerk has been employed for several months compiling them into convenient form for reference.

The clerical force of the water department, as provided in the last appropriation bill, is not sufficient to properly conduct the business of the department, and it is and will be necessary to employ additional help during certain busy seasons of the year.

QUALITY OF THE WATER.

During the early summer and late fall of the present year, 1886, the water supply to the city has been clear and of good quality. The contrary was the case, however, during the preceding winter, spring, and early summer. During this portion of the year the water was very muddy and disagreeable in appearance, and not by any means such a supply as is demanded by refined and civilized people. This is the regular routine from year to year, the water being good and clear when the city is comparatively deserted, and taking on its unpleasant condition when the city is thronged with residents and with visitors from all parts of the country and the world. The good name of the city demands that steps be taken to remedy the existing evil. While on duty in connection with the Washington Aqueduct I made a report on this subject in response to a Senate resolution, to which I have the honor to invite your attention.

I would also state that while on the same duty I made a report on the upper or receiving reservoir. This report embraced a description of it,

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showing its very unsatisfactory condition and giving plans and estimates for its improvement. The condition of this reservoir is largely responsible for the bad condition of the water during the winter and spring, and it should be improved as soon as possible.

PUMPS.

The water department has charge of the appropriation for the purchase and repair of pumps. The sum of \$3,000 was appropriated for this purpose, and this was all expended. For the fiscal year 1886-'87 the same sum was appropriated. Efforts are being made to procure a pump which shall be fully as, if not more, durable than the old wooden pumps and not so unsightly. The sum of \$3,000 is asked for the year 1887-'88.

The following is a summary estimate of the amounts needed for the water department for the year 1887-'88:

| | |
|---|-------------|
| Salaries | \$14,700 00 |
| Contingent expenses | 3,000 00 |
| Pumping expenses and pipe distribution | 125,000 00 |
| High-service pumping engines and boilers for Washington and Georgetown | 35,000 00 |
| Interest and sinking fund on account of water-stock bonds | 44,610 00 |
| Interest and sinking fund on account of increasing the water supply as provided in act of July 15, 1881 | 76,655 69 |
| | <hr/> |
| Pumps | 298,965 69 |
| | 3,000 00 |

In concluding this report on the water department, I have the honor to call attention to the totally inadequate offices provided for the department. It is impossible to properly transact the business of the office in the quarters provided. Part of the records of the office are on the ground floor and part on the fourth floor, and, as constant communication is necessary, the result is great loss of time. The clerks are required to work amid the din of talking and the transaction of business in the narrow room occupied by the water department, and the consequence is, as may be readily imagined, that mistakes occur and the work is not performed in the best manner.

The superintendent has no proper office for the transaction of his business. There is imperatively needed, by the water department at least twice as much office room as it occupies at present.

SEWERS.

BOUNDARY SEWER.

During the year 1885-'86 work progressed on the Boundary sewer under the contract with Thomas McCann, and in October it was finished and water turned through it. Some minor details and finishing touches are yet to be added, but in the main this great work, which has been in progress for seven years, is completed. The result must be a great relief to the Tiber Creek sewer and the other large sewers in the southern part of the city, which have been in the habit of overflowing at every heavy storm.

Financial statement.—Completion of sewerage system of District of Columbia.

| | |
|---------------------------------|--------------|
| Appropriation | \$500,000 00 |
| Expended to June 30, 1886 | 490,304 31 |
| | <hr/> |
| Balance | 9,695 69 |

The balance not being sufficient to finish it, \$20,000 was appropriated for the year 1886-'87, which has mostly been used in bringing the work to completion.

It may be well to state here that the title of the appropriation is a misnomer, as it does not *complete* the sewerage system of the District by any means. Besides the many miles of small pipe sewers, which will be needed for the immediate drainage of the multitude of houses built and to be built in the District, there must be constructed several other large main sewers, and some method of *sewage disposal* must be adopted to prevent the deposition of sewage in Rock Creek and along the river front.

CLEANING AND REPAIRING LATERAL SEWERS AND BASINS.

The superintendent of streets has been charged with cleaning and repairing lateral sewers and basins, for which an appropriation of \$20,000 was made. Of this there was expended \$19,990.95. For a statement of the work done under this appropriation see report of superintendent of streets.

CLEANING TIDAL SEWERS AND ROCK CREEK BASIN.

The work of cleaning tidal sewers and Rock Creek Basin was under the same supervision. For this the appropriation was \$5,000, which was all expended. Details of the work are given in the report above mentioned.

For the present fiscal year, 1886-'87, there is an appropriation for *cleaning sewers and basins* of \$25,000. This was undoubtedly meant to cover the two items of the previous year, aggregating the same, for "cleaning and repairing lateral sewers," and "cleaning tidal sewers and Rock Creek Basin," and has so been considered, and the money so expended. The Treasury officials have called in question the propriety of expending the money from this appropriation for *repairs*, and it may be that to legalize the expenditure so made Congressional action will be necessary.

PERMIT SEWERS.

The report of the superintendent of streets also embraces the sewers built under the permit system.

There were laid during the year under this system 16,148 lineal feet of pipe sewers, 153 feet of brick sewers, and 18 traps and drops, and 122 manholes were built. The entire cost was \$26,169.22.

LATERAL SEWERS.

| | |
|---|-------------|
| Amount appropriated for <i>lateral sewers</i> , 1885-'86..... | \$25,000 00 |
| Amount expended..... | 24,375 04 |
| Amount appropriated for <i>sewers</i> , 1886-'87..... | 45,000 00 |

The following is a statement of the work done with the \$25,000 appropriation for lateral sewers:

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Sewers constructed under appropriation for 1885-'86.

[12-inch pipe sewers.]

| Street. | From— | To— | Length. |
|--|-----------------------|-----------------------------|---------------------|
| B street northeast | Fifth | Sixth | <i>Feet.</i> 312 |
| E street northeast | Second | Third | 344 |
| Fourth street northeast | H | I | 339.5 |
| H street northeast | Third | Fourth | 335.5 |
| Do | Tenth | Eleventh | 156 |
| East Capitol street northeast | First | Second | 605 |
| Square 808 northeast | H and I | Fourth and Fifth | 427 |
| South Carolina avenue southeast | Third | Fourth | 300 |
| E street southeast | Fourth | Sixth | 572.5 |
| Do | Third | Fourth | 315 |
| G street southeast | Ninth | Tenth | 332 |
| Tenth street southeast | E | G | 378 |
| E street southeast | Fourth | Sixth | 500 |
| Ninth street southeast | C | North Carolina avenue | 512 |
| G street southeast | Seventh | Eighth | 231 |
| Eleventh street southeast, east side | E | I | 1,036.5 |
| Eleventh street southeast, west side | I | I | 1,151.5 |
| G street southeast | Third | Fourth | 321 |
| Do | Fourth | Sixth | 486 |
| C street southeast | Second | Third | 330 |
| South Carolina avenue southeast | Sixth | Seventh | 563 |
| L street northwest | First | New Jersey avenue | 383 |
| Third street northwest | Q | R | 531 |
| First street northwest | Pierce | M | 226 |
| R street northwest | Boundary | Third | 543 |
| Thirty-first street northwest | M | N | 141.5 |
| Thirty-first street northwest, west side | Q | Road | 1,040 |
| Thirty-first street northwest, east side | Q | Road | 990 |
| Eighth street southwest, east side | D | E | 461 |
| Eighth street southwest, west side | D | E | 578 |
| H street southwest | Four-and-a-half | Sixth | 547.5 |
| Virginia avenue southwest | First | Second | 297.5 |
| Total | | | 15,296 |

[15-inch pipe sewers.]

| | | | |
|---------------------------------|--------------|----------------------------------|----------------|
| B street northeast | Fourth | Fifth | 286 |
| G street southeast | Fifth | Sixth | 309 |
| L street northwest | First | Alley east of First street | 174 |
| Alley square 620 | Pierce | First to alley | 494.8 |
| Virginia avenue southwest | First | Delaware avenue | 367 |
| Total | | | 1,630.8 |

[18-inch pipe sewers.]

| | | | |
|--------------------------|-------------|---------------|----------------|
| G street southeast | Third | Fifth | 720 |
| D street southwest | First | Second | 373 |
| Do | Sixth | Seventh | 453.7 |
| Total | | | 1,546.7 |

[24-inch pipe sewer.]

| | | |
|--------------------------|--|-----|
| L street northwest | Alley east of First running east | 147 |
|--------------------------|--|-----|

RECAPITULATION.

| | | |
|---|--------|---------|
| 12-inch sewer | feet.. | 15,296 |
| 15-inch sewer | do.. | 1,630.8 |
| 18-inch sewer | do.. | 1,546.7 |
| 24-inch sewer | do.. | 147 |
| Receiving basins | do.. | 33 |
| 12-inch connections with receiving basins | do.. | 703 |

Under the appropriation of \$45,000 for the year 1886-'87, work has progressed since July 1. Contracts for pipe sewers were let to John Cadmore, and for brick sewers and traps to John Lyons.

Under existing practice the sewer work of the District is carried on under different heads and without a proper and sufficient unity of system and superintendence. The work is of magnitude and importance, and in all its details very complicated, and, in my opinion, it should be converted into a department by itself with a single head, which department should be charged with all the work of constructing, repairing, cleaning, tapping, and connecting sewers.

I have therefore to recommend that a *department of sewers* be established, with a salaried officer at its head to be designated *superintendent of sewers*, and the necessary force to keep the records of the office, make observations, prepare plats, &c. This should be provided for in the appropriation bill for 1887-'88, and the estimates submitted herewith for this year are on this basis.

SEWER DEPARTMENT.

Salaries.

| | |
|---------------------------------|---------|
| One superintendent..... | \$1,600 |
| One draftsman..... | 1,200 |
| One clerk and gauge-keeper..... | 1,000 |
| | 3,800 |

CONSTRUCTION OF SEWERS.

The money required for the construction of sewers of Washington and Georgetown may be conveniently estimated for under three heads: (1) for main sewers; (2) for new pipe sewers; (3) for replacing old sewers which have become obstructed and worthless.

(1) Under the head of main sewers is included the brick and concrete sewers larger than the 24-inch pipe sewers. There are several important main sewers badly needed for the sewerage of sections of the city which are rapidly building up, particularly in the northeast and southeast.

The two principal main sewers required are one from Lincoln Park, running south along Twelfth street east, and the other starting at Lincoln Park and running to the northeast along Tennessee avenue. Others are needed in Georgetown and for the relief of different sections of the city now damaged at every heavy storm.

The estimate herewith also includes the extension of the Sixth and Twelfth street sewers to deep water. These sewers now discharge into open channels on each side of the Washington navy-yard, creating a great nuisance, which has been repeatedly and bitterly complained of.

(1.) *Estimate for main sewers 1887-'88.*

| Object. | Length. | Amount. |
|------------------------------------|--------------|---------|
| | <i>Feet.</i> | |
| Extension Georgetown sewer..... | | \$5,000 |
| 5-foot brick sewer..... | 1,400 | 19,000 |
| 4.5 by 6.75 foot brick sewer..... | 450 | 3,600 |
| 3.5 by 5.25 foot brick sewer..... | 200 | 1,200 |
| 3 by 4.5 foot brick sewer..... | 525 | 2,756 |
| 2.75 by 4.12 foot brick sewer..... | 2,980 | 13,555 |
| 2.5 by 3.75 foot brick sewer..... | 700 | 3,150 |
| 2.25 by 3.37 foot brick sewer..... | 3,460 | 14,704 |
| 2 by 3 foot brick sewer..... | 2,350 | 9,400 |
| Total..... | | 72,365 |

(2) NEW PIPE SEWERS.

The estimate herewith includes those pipe sewers needed in streets, avenues, and large main alleys.

| Object. | Length. | Amount. |
|--------------------------------------|--------------|---------|
| | <i>Feet.</i> | |
| 24-inch pipe sewers | 3,600 | \$9,900 |
| 18-inch pipe sewers | 655 | 1,310 |
| 12-inch and 8-inch pipe sewers | 30,000 | 37,500 |
| Total | | 48,710 |

(3) REPLACING OLD SEWERS.

There is a very great aggregate length of sewers in Washington and Georgetown, which were laid under the old Board of Public Works, which are now practically useless and must be replaced. These sewers were laid with open joints, through which roots have penetrated and multiplied and collected dirt in such a manner as to be entirely obstructed in many cases. Cleaning them is almost impossible, and when done the same condition is again reached with surprising rapidity. There are 20,000 feet at least of these old obstructed sewers which should be replaced at once. It is more expensive to replace these old sewers than it is to lay entirely new ones on account of making house connections.

Estimate for replacing obstructed pipe sewers.

12 and 15 inch sewers (20,000 feet)..... \$30,000

SUBURBAN SEWERAGE.

The country north of the Boundary is filling up rapidly, and therefrom come many and urgent calls for sewerage facilities. This is particularly the case with Mount Pleasant, Le Droit Park, Columbia Heights, and Meridian Hill. The sewerage of this section should never be allowed to run into Rock Creek, but should be brought to the Boundary and down through the great Tiber Creek sewer and discharged at the most southern point of the city. This requires that the main trunk sewer, 6 feet in diameter, now going up Eighth street west, be extended about 6,000 feet along Eighth, Irving, Princeton, and Thirteenth streets to Whitney avenue, in size varying from 5 feet to 2 feet in diameter. This will furnish the main trunk for the sewerage of a large amount of suburban property. Its estimated cost is \$42,000. To this should be added without delay 2,000 feet of 18 inch sewer and 2,000 feet of 12 inch sewer to reach the most thickly built up portions of the county. Their estimated cost is \$6,500. There are other suburban sewers needed, but these are the primary and most urgent.

Estimate for suburban sewerage..... \$48,500

PERMIT SEWERS.

For material for permit sewers to be laid upon regular application and deposit of money to pay for labor, \$12,000.

This permit system contemplates the building of sewers in streets and alleys partly at the expense of the District and partly at the expense

of the property owner or owners benefited, the District to pay for the material and the property owners for the labor.

The system arises from the fact that the regular appropriation for the construction of sewers is not sufficient to do all the work required, and while, in many cases, there is no cause of complaint against the system, in others it works decided hardship. One person builds a sewer at considerable expense to himself, and others who pay nothing are permitted to use it. It would be better if the revenues of the District would allow it to build all sewers in streets and main alleys entirely at the expense of the District.

COMPULSORY SEWERAGE AND DRAINAGE.

Many of the alleys of Washington in which are numerous dwellings are without adequate sewerage or drainage. The owners of the property, either through neglect or cupidity, will not voluntarily supply the sewers and connections required for proper drainage and compliance with the laws of health. The consequence is that in many instances these alleys become festering nuisances, polluting the air of whole neighborhoods, and are constant menaces to health and invitations to epidemics. I would therefore recommend that money be appropriated for providing sewerage and drainage for such alleys, the Commissioners of the District to have power to lay sewers in such alleys as may seem to them proper and desirable for the public health, safety, and comfort, and assess the cost of the labor so expended against the abutting property benefited. The Commissioners should have the further power to compel the owners of all houses, tenements, and stables to connect their buildings with sewers laid for the purpose in a proper manner, within a sufficient length of time, say sixty days. If the owners neglect to do this, the Commissioners should have the power to enter upon the premises and do it for them, assessing the entire cost thereof against the property, to be collected as other taxes.

Estimate for compulsory sewerage and drainage, 1887-'88. \$20,000

The act of the legislative assembly of August 21, 1871, covers the same question, but no means being provided for its enforcement, it is inoperative.

CLEANING AND REPAIRING SEWERS AND BASINS.

The necessary expense for cleaning the sewers of the District is about \$18,000. Many of the old sewers of Washington, and particularly of Georgetown, are sadly in need of repairs, and are liable to give way completely at any time. At least \$17,000 is needed for their repair and preservation. I have therefore to recommend the following appropriation:

Cleaning and repairing sewers and basins..... \$35,000

SEWAGE DISPOSAL.

All the sewerage proper of the city which now finds its way into Rock Creek and the Potomac should be intercepted and conveyed to some point near the junction of the Anacostia and Potomac, and there a pumping station erected to pump it out into the deep water of the river. It is perfectly practicable to do this leaving the present sewer outlets for storm water. The elaboration of a plan of this kind is

a work of considerable magnitude, but one which should be undertaken without delay, and I recommend that the sum of \$30,000 be appropriated for the preparation of the plans for sewage disposal and commencement of the work.

Summary of estimates for sewer department.

| | |
|---|-----------|
| Salaries..... | \$3,800 |
| Construction of sewers: | |
| Main sewers..... | \$72,365 |
| New pipe sewers..... | 48,710 |
| Replacing old sewers..... | 30,000 |
| | <hr/> |
| Suburban sewerage..... | 151,075 |
| Material for permit sewers..... | 48,500 |
| Compulsory sewerage and drainage..... | 12,000 |
| Cleaning and repairing sewers and basins..... | 20,000 |
| Sewage disposal..... | 35,000 |
| | <hr/> |
| | \$300,375 |

In conclusion I would recommend that all the work of sewer construction be done by hired labor and not by contract. I am entirely convinced that the work would be done much better than it is now and would cost less. It seems to me almost an impossibility to get sewers built under the contract system in an entirely thorough and unexceptionable manner, even under the most rigid inspection attainable. The prices bid by competing contractors are very low, and the temptation to use poor material and to do careless, hasty work are correspondingly great, and these, combined with the facility with which the work can be covered up out of sight and the trenches filled with imperfectly-compacted material, are elements which render the contract system inapplicable to the construction of sewers.

STREET LIGHTING.

The total number of street lamps at the close of the fiscal year 1885-'86 was 4,622. Lamps were burned 2,600 hours during the year.

The limited appropriation for the year 1886-'87 will permit the erection of but a very small number of street lamps. Already applications for needed lights, aggregating more than a hundred, have been refused. The growth of the city demands that many new lights should be erected, and in the estimate for the year 1887-'88, provision is made for erecting 400 new lamps.

It is very desirable that the number of hours for street lighting should be increased from 2,600 to 3,000, and this is recommended. Attention is invited to the report of the superintendent of lamps.

The report of the United States inspector of gas and meters gives the details of the work of his department, with the estimates of the amounts required for his office.

It is suggested that as this officer is paid from the District appropriation, and his business is so intimately associated with the lighting of the streets and well-being of the citizens of the District using gas, that the work of his office be combined with that of the superintendent of lamps, and a department of lighting established under the District government, which should have cognizance of all duties connected with the public and private supply of gas, testing meters, electric lighting, &c.

The proper *personnel* of such a department would be—

| | |
|------------------------------------|-------------|
| One superintendent | \$2,000 |
| One assistant superintendent | 1,200 |
| One inspector of lamps | 1,200 |
| One messenger | 600 |
| | <hr/> 5,000 |

I believe that the ultimate result of such a combination would be to increase the efficiency of the service.

The following estimate of funds required for fiscal year 1887-'88 for department of light, as above, is based upon burning the lamps 3,000 instead of 2,600 hours, as at present provided, and at a proportionate rate.

| | |
|---|---------------|
| Salaries | \$5,000 |
| 4,450 lamps, at \$22.22 | 98,879 |
| 400 new lamps erected, at \$25 | 8,000 |
| Lighting 400 new lamps three-fourths year, at \$16.67 | 6,668 |
| Painting 4,000 lamp-posts and lamps, at 25 cents | 1,000 |
| Street signs | 1,000 |
| | <hr/> 120,547 |

To this must be added the amount necessary to pay for the electric lighting of certain streets.

RIVER FRONT.

As the river front has been decided to be under the control of the District Commissioners, it is only proper that provisions be made for its care.

Laws and regulations governing the use of the harbor and river front are very much needed, as there are almost none on the subject.

The Commissioners should have the authority to make such laws and regulations and be given power to enforce them. The harbor-master should be provided with a steam tug of sufficient size and power and properly fitted up to enable him to police the harbor, enforce the harbor regulations, and remove to a place of safety any stray floating boats, barges, or anything else which might injure the shipping.

The cost of such a tug would be about \$7,500, and the yearly expense of keeping it would be about \$2,500.

The sea wall along the river front is in some places dilapidated and in need of repair. James Creek Canal, which is largely used for commercial purposes, has shoaled up to a considerable extent and should be dredged out. For the work along the river front I estimate that \$5,000 should be appropriated.

I would therefore recommend that there be appropriated for river front and harbor \$15,000.

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Summary statement of expenditures, appropriations, and estimates.

| Description. | Expenditures for fiscal year ending June 30, 1886. | Appropriations for fiscal year ending June 30, 1887. | Estimates for fiscal year ending June 30, 1888. |
|--|--|--|---|
| Water department: | | | |
| Salaries | \$9,33 00 | \$9,539 00 | \$14,700 00 |
| Contingent expenses | 2,148 63 | 2,400 00 | 3,000 00 |
| Pumping expenses and pipe distribution | 58,655 72 | 75,000 00 | 160,000 00 |
| Interest and sinking fund on water stock bonds | 44,610 00 | 44,610 00 | 44,610 00 |
| Interest and sinking fund on account of increasing the water supply act of July 15, 1882 | 55,047 27 | 57,239 02 | 76,655 69 |
| Refunding erroneously paid water rents | 385 05 | | |
| Sewer department, salaries | | | 3,800 00 |
| Constructing new sewers: | | | |
| Lateral sewers | 24,385 04 | 45,000 00 | 151,075 00 |
| Suburban sewerage | | | 48,500 00 |
| Material for permit sewers | 8,261 34 | *60,000 00 | 12,000 00 |
| Compulsory sewerage and drainage | | | 20,000 00 |
| Cleaning and repairing sewers and basins | 19,990 95 | 25,000 00 | 35,000 00 |
| Cleaning tidal sewers and Rock Creek basins | 5,000 00 | | |
| Sewage disposal | | | 30,000 00 |
| Completion of sewerage system of District of Columbia | 195,040 97 | 20,000 00 | |
| Gas department: | | | |
| Office of inspector of gas and meters | 698 50 | 800 00 | |
| Lighting streets and erecting lamps | 90,396 57 | 100,000 00 | |
| Department of light, recommended: | | | |
| Salaries | | | 5,000 00 |
| Lighting of streets by gas | | | 115,000 00 |
| Lighting of streets by electricity | | | 35,000 00 |
| Public hay scales, repair and replacement of | 75 38 | 500 00 | 500 00 |
| Pumps, purchase and repair of | 2,906 37 | 3,000 00 | 3,000 00 |
| Harbor and river front | | | 15,000 00 |

* This includes material for street work.

Respectfully submitted.

THOMAS W. SYMONS,
Captain of Engineers, U. S. A.

Col. WILLIAM LUDLOW,
Engineer Commissioner, D. C.

B.—REPORT OF CAPT. EUGENE GRIFFIN, CORPS OF ENGINEERS, U. S. ARMY, ASSISTANT TO THE ENGINEER COMMISSIONER, DISTRICT OF COLUMBIA.

ENGINEER DEPARTMENT,
DISTRICT OF COLUMBIA,
Washington, December 3, 1886.

SIR: I have the honor to submit herewith a report of the operations of a portion of the engineer department for the fiscal year ending June 30, 1886.

On the 10th of June, 1886, in compliance with paragraph 15, S. O. No. 123, Headquarters of the Army, A. G. O., May 27, 1886, I reported to you for duty, relieving Capt. Frederick A. Mahan, Corps of Engineers, of the charge, under your direction, of that portion of the work of this department relating to pavements, street improvements, county roads, sweeping and repairs of streets and alleys, construction and repair of bridges, lighting streets, and generally all surface work relating to the improvement and care of the streets and roads in the District.

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The following is a summary statement of the year's work:

Summary statement of operations and estimates.

| Description. | Expenditures for fiscal year ending June 30, 1886. | Appropriations for fiscal year ending June 30, 1887. | Estimates for fiscal year ending June 30, 1888. |
|---|--|--|---|
| Purchase and repair of instruments | | | \$800 |
| Work on sundry avenues, and replacement of pavements | \$264,818 83 | \$266,000 | 465,000 |
| Repairs to concrete pavements | 49,998 44 | 65,000 | 90,000 |
| Materials for permit work | 49,291 54 | 60,000 | 90,000 |
| Chain Bridge keeper | 660 10 | 660 | |
| Repair to bridges | 5,984 91 | 10,000 | |
| Ordinary care of Benning's, Anacostia, and Chain Bridges | | 2,000 | |
| Construction, maintaining, lighting, and repairing of bridges | 24,999 83 | 25,000 | 13,500 |
| Current repairs to streets, avenues, and alleys | | | 35,000 |
| Maintenance of streets, avenues, and alleys | 39,988 92 | 40,000 | |
| Current repairs on county roads and suburban streets | | | 50,000 |
| Maintenance of county roads and suburban streets | 45,000 00 | | |
| Sweeping, cleaning, and sprinkling streets and avenues | 9,993 84 | 58,000 | 70,000 |
| Cleaning alleys | | 30,000 | 60,000 |
| Opening and extending suburban streets | 17,848 47 | 18,000 | 25,000 |
| Paving commission, labor, &c | | | |
| Continuation of surveys of District of Columbia with reference to extension of various avenues to the District line | 4,999 91 | 4,000 | 15,000 |
| Total | 513,549 69 | 578,660 | 854,300 |

PAVEMENTS.

The condition of the streets on July 1, 1886, as shown in detail by the tabular statement in the appendix, was as follows:

Summary of street pavements July 1, 1886.

| | Total to July, 1885. | | 1885-'86. | | Increase. | | Decrease. | | Total to July, 1886. | |
|---------------------------------------|----------------------|--------|---------------|--------|---------------|--------|---------------|--------|----------------------|--------|
| | Square yards. | Miles. | Square yards. | Miles. | Square yards. | Miles. | Square yards. | Miles. | Square yards. | Miles. |
| Concrete (asphalt or coal tar) | 1,466, 66 | 63.90 | 65,417 | 3.10 | 65,417 | 3.10 | | | 1,551,480 | 67.00 |
| Stone-blocks (granite or traps) | 524,143 | 29.73 | 8,745 | 0.42 | 8,745 | 0.42 | | | 532,888 | 21.15 |
| Rough stone (cobble or rubble) | 2,633 | 15.04 | | | | | | | | |
| Macadam | 567,069 | 6 87 | 28,949 | 1.32 | 28,949 | 1.32 | 23,629 | 1.06 | 539,004 | 13.93 |
| Gravel | 195,238 | 36.96 | 31,504 | | | | | | 225,000 | 8 19 |
| Wood | 79,421 | 0.81 | | | | | 1,910 | 0.43 | 733,302 | 36.53 |
| Unimproved | 1,650,686 | 89.16 | | | | | 12,421 | 0.59 | 7,000 | 0 22 |
| | | | | | | | 65,015 | 2.76 | 1,591,803 | 86.40 |
| | 5,180,376 | 234.47 | 134,765 | 4.84 | 103,111 | 4.84 | 103,001 | 4.84 | 5,180,586 | 233.47 |

The old wood pavement has been entirely replaced, with the exception of a small strip of 7,000 square yards on New Jersey avenue, between New York avenue and O streets northwest.

Replacement of wooden pavements.

| Years. | With asphalt. | | With granite. | | With asphalt blocks. | | Total. | |
|----------------|---------------|----------------|---------------|---------------|----------------------|-------------|---------------|----------------|
| | Square yards. | Cost. | Square yards. | Cost. | Square yards. | Cost. | Square yards. | Cost. |
| 1878-'79 | 104, 023 | \$200, 900 18 | 56, 993 | \$129, 657 32 | 1, 094 | \$2, 661 61 | 162, 110 | \$333, 219 11 |
| 1879-'80 | 67, 963 | 104, 143 17 | 45, 084 | 87, 390 42 | 3, 214 | 6, 349 50 | 116, 261 | 197, 883 10 |
| 1880-'81 | 75, 469 | 146, 291 70 | 47, 743 | 103, 678 86 | ..... | ..... | 123, 212 | 249, 970 56 |
| 1881-'82 | 72, 624 | 156, 663 71 | 15, 477 | 42, 529 05 | 4, 937 | 9, 318.60 | 93, 038 | 208, 511 36 |
| 1882-'83 | 81, 111 | 197, 765 19 | ..... | ..... | 14, 130 | 31, 639 68 | 101, 241 | 229, 404 87 |
| 1883-'84 | 87, 045 | 201, 261 78 | ..... | ..... | ..... | ..... | 87, 045 | 201, 261 78 |
| 1884-'85 | 26, 870 | 62, 407 26 | 10, 019 | 26, 437 64 | ..... | ..... | 36, 889 | 88, 844 90 |
| 1885-'86 | 5, 319 | 12, 749 57 | 3, 730 | 9, 201 74 | 3, 872 | 8, 715 67 | 12, 921 | 30, 666 98 |
| Total ... | 526, 424 | 1, 081, 182 56 | 179, 046 | 398, 895 03 | 27, 247 | 58, 615 07 | 732, 717 | 1, 539, 762 66 |

The next important step in this class of improvements will be the replacement of the old rubble and cobble pavements (539,004 square yards) Indiana and Dunbarton avenues, Fourteenth, Four-and-a-half, H, I, and Sixth streets, are on the schedule for improvement during the present fiscal year. But rubble pavements, however disagreeable, are preferable to none, and the recent rapid extension of the city may make the laying of new pavements of more pressing importance for the next few years than the replacement of rubble on the more outlying streets.

For the past eight years, the greater part of each annual appropriation has been expended in replacing the wood pavements and the amount of new work executed has been limited.

The following table shows the area of new pavements laid yearly since 1878:

New pavements laid from 1878-'86.

| Years. | With asphalt. | | With granite. | | With asphalt blocks. | | Grading and regulating. | Total. | |
|----------------|---------------|--------------|---------------|-------------|----------------------|-------------|-------------------------|---------------|--------------|
| | Square yards. | Cost. | Square yards. | Cost. | Square yards. | Cost. | Cost. | Square yards. | Cost. |
| 1878-'79 ..... | ..... | ..... | ..... | ..... | ..... | ..... | \$11, 522 70 | ..... | \$11, 522 70 |
| 1879-'80 ..... | ..... | ..... | ..... | ..... | ..... | ..... | 55, 164 91 | ..... | 55, 164 91 |
| 1880-'81 | 9 951 | \$17, 228 58 | 3, 110 | \$6, 914 68 | 2, 889 | \$7, 661 03 | 10, 238 48 | 15, 950 | 42, 042 77 |
| 1881-'82 | 8, 229 | 21, 243 97 | 16, 687 | 42, 296 11 | ..... | ..... | 13, 674 68 | 24, 916 | 77, 214 76 |
| 1882-'83 ..... | ..... | ..... | 15, 815 | 48, 475 28 | ..... | ..... | 7, 361 55 | 15, 815 | 55, 836 83 |
| 1883-'84 ..... | ..... | ..... | 15, 815 | 48, 475 28 | ..... | ..... | 33, 672 85 | 46, 168 | 164, 245 07 |
| 1884-'85 | 34, 780 | 92, 403 76 | 11, 388 | 38, 168 46 | ..... | ..... | 25, 133 34 | 52, 417 | 175, 952 36 |
| 1885-'86 | 31, 802 | 90, 057 93 | 9, 167 | 33, 320 11 | 11, 448 | 27, 440 98 | 62, 814 07 | 40, 657 | 161, 330 54 |
| 1885-'86 | 11, 208 | 27, 978 30 | 5, 117 | 13, 478 00 | 24, 332 | 57, 060 17 | ..... | ..... | ..... |
| Total .. | 95, 970 | 248, 912 54 | 61, 284 | 182, 632 64 | 38, 669 | 92, 162 18 | 219, 582 58 | 195, 923 | 743, 309 94 |

The annual appropriation will hereafter be largely expended in extending the area of paved streets.

REPAIRS TO CONCRETE PAVEMENTS.

Appropriation, \$50,000.

Repairs to asphalt and coal-tar or "distillate" pavements, which include resurfacing, are executed by contract at fixed rates. The following is a summary of the year's work:

Repairs to concrete pavements 1885-'86.

| | 1884-'85. | | 1885-'86. | | Difference. | |
|---------------------------------------|-----------|-------------|-----------|------------|-------------|-------------|
| | Yards. | Cost. | Yards. | Cost. | Yards. | Cost. |
| Minor repairs to asphalt | 6,831.28 | \$11,963.42 | 3,366.14 | \$4,948.22 | -3,465.14 | -\$7,015.20 |
| Minor repairs to coal-tar | 9,118.62 | 9,804.77 | 11,192.47 | 11,752.09 | 2,074.45 | 1,947.32 |
| Resurfacing with asphalt | 17,000.60 | 27,098.62 | 18,255.53 | 29,566.43 | 1,255.53 | 2,467.81 |
| Base, binder, and granite block | | | | 2,166.70 | | 2,166.70 |
| Cost of inspection | | 1,205.00 | | 1,565.00 | | 360.00 |
| Total | 32,949.30 | 50,071.81 | 32,814.14 | 49,998.44 | -135.16 | -073.37 |

In theory each of these pavements consists of a practically indestructible base, covered by a wearing surface which should last from ten to fifteen years and which can be renewed whenever needful. Many of the older pavements which have been worn down to the base have been resurfaced, as is shown by the following table:

Coal-tar distillate pavements.

| | Yards. | Cost. | Minor repairs. | |
|--|---------|----------------|---|------------|
| | | | Year. | Amount. |
| Laid 1871-'77 | 741,415 | \$2,284,004.91 | | |
| Resurfaced with coal-tar, 1875-'78 | 218,843 | \$329,378.69 | 1875-'78 | \$3,099.62 |
| Replaced with asphalt, 1879 | 17,864 | 29,691.90 | 1878-'79 | 18,618.22 |
| Resurfaced with asphalt: | | | 1879-'80 | 8,206.26 |
| 1878-'80 | 53,436 | 59,187.40 | 1880-'81 | 23,020.47 |
| 1880-'81 | 20,451 | 31,300.48 | 1881-'82 | 21,759.48 |
| 1881-'82 | 31,172 | 45,741.86 | 1882-'83 | 18,967.04 |
| 1882-'83 | 19,445 | 29,682.03 | 1883-'84 | 12,043.23 |
| 1883-'84 | 19,427 | 31,555.55 | 1884-'85 | 22,000.00 |
| 1884-'85 | 15,991 | 27,208.52 | 1885-'86 | 18,168.38 |
| 1885-'86 | 18,354 | 29,566.43 | | |
| Total resurfacing | 414,982 | 612,312.73 | Total for resurfacing and repairs | 759,188.46 |

In 1871-'77, 741,415 square yards of distillate pavements were laid. Such of these pavements as were properly constructed are still in excellent condition, but the majority were neither composed of the best materials nor laid by the most approved methods, and have as a rule failed to show such endurance as the more modern pavements exhibit. The resurfacing does not keep pace with the deterioration of these pavements; on many streets the surface is entirely gone, and the base is rapidly wearing away under the street traffic to which it was never contemplated that it should be subjected and which it was not designed to support.

In 1875-'78, 218,843 square yards were resurfaced with coal tar; in 1879, 17,864 square yards were entirely replaced with asphalt pavement; and in 1878-'86, 179,285 square yards were resurfaced with asphalt; leaving a balance of 326,433 square yards, which have received

no repairs beyond ordinary patching since laying in 1871-'77. This large area, and the constantly increasing area of more modern pavements which are annually turned over to the District for maintenance as the contractors' guarantees expire, make it of pressing importance that the appropriation for "repairs to concrete pavements" should, for at least several years, be considerably increased.

Under the act of June 11, 1878, contractors are required to "keep new pavements or other new works in repair for a term of five years from the date of the completion of their contracts."

The guarantee on pavements laid or resurfaced in 1878-'79 expired in 1883-'84. The following table shows the yearly increase in area of paved streets not under guarantee for the past three years and for the next five years.

Yearly increase in area of concreted streets maintained by the District.

| Year. | Total number of square yards not under guarantee only 1. | Annual appropriation for repairs to concrete pavements. | Appropriation per square yard of pavement to be maintained. | Square yards on which guarantee expires. | Square yards resurfaced under guarantee. | Net increase in square yards of pavement not under guarantee. |
|----------------|--|---|---|--|--|---|
| | 1. | 2. | 3. | 4. | 5. | 6. |
| 1883-'84 | 755,855 | \$50,000 | \$0.066 | 130,741 | 19,427 | 111,314 |
| 1884-'85 | 867,169 | 50,000 | .058 | 112,545 | 15,991 | 96,554 |
| 1885-'86 | 963,723 | 50,000 | .052 | 105,871 | 18,254 | 87,617 |
| 1886-'87 | 1,051,340 | 65,000 | .062 | 112,025 | 18,000 | 94,025 |
| 1887-'88 | 1,145,365 | 90,000 | .079 | 106,556 | 30,000 | 76,556 |
| 1888-'89 | 1,221,921 | 100,000 | .082 | 141,252 | 36,000 | 105,252 |
| 1889-'90 | 1,327,173 | 100,000 | .075 | 74,663 | 35,000 | 39,663 |
| 1890-'91 | 1,366,836 | 100,000 | .073 | 34,781 | 35,000 | 219 |

All data for 1887-'88, and subsequent years are based on estimated appropriations, with the exception of column 4, which is exact. Asphalt block pavements are not included in this table. The contract for "repairs to bituminous concrete pavements" provides only for sheet asphalt and coal-tar distillate.

Even with the above-mentioned appropriations, there will still remain on July 1, 1891, 172,433 square yards of the old distillate pavements laid in 1871-'77 which will not have been resurfaced, and which will then have been in service, on the average, for a period of sixteen years. As not less than 50,000 square yards need immediate resurfacing, the estimates given cannot well be decreased.

CURRENT REPAIRS TO STREETS, AVENUES, AND ALLEYS.

Appropriation, \$25,000.

This appropriation is for the maintenance and repair of all the granite and Belgian block, cobble, rubble, graveled and macadamized streets and avenues (not under guarantee) within the city limits; the maintenance and repair of alleys, the filling of dangerous holes, and generally all necessary repairs to streets, avenues, and alleys not provided for by other appropriations.

These repairs are executed under the direction of the superintendent of streets, and the considerable amount of work accomplished with the appropriation of \$25,000, as shown in his report, is worthy of notice.

PERMIT WORK.

Appropriation, \$50,000.

The permit system, under which the District furnishes the material and the property-owner pays the cost of labor for such improvements

as are requested by the latter and ordered by the Commissioners, is growing more popular yearly. Congress makes no appropriation for paving alleys, and such work can be done only under the permit system. With the exception of the streets enumerated in the schedule on which Congress bases its appropriation for "Street improvements," no appropriation is made for paving footways, and new sidewalks, on other than the scheduled streets, can be laid only under the permit system. Heretofore the appropriation has sufficed to meet all reasonable requests for improvements, but in 1885-'86 the entire appropriation was exhausted, many requests were compelled to lie over until the present fiscal year, and already the demands upon the present appropriation are so great that much discrimination has to be exercised lest the entire appropriation be exhausted before winter.

As the cost of labor averages about one-third of the total cost of the improvement, the economy of this system is apparent, and liberal appropriations could profitably be made under this head.

This work is also under the direction of the superintendent of streets, to whose report I refer for details.

STREET AND ALLEY CLEANING.

Appropriation for street cleaning, \$45,000; for alley cleaning, \$10,000.

L. P. Wright & Son had the contract for street cleaning during the past year, at 28½ cents per 1,000 square yards. The expenditures were as follows:

Street cleaning.

| | 1884-'85. | 1885-'86. | Difference. |
|--------------------------------|-------------|--------------|-------------|
| Cleaning paved streets | \$33,998 55 | *\$34,676 16 | \$677 58 |
| Cleaning unpaved streets | 3,434 91 | 8,202 47 | 4,827 56 |
| Removing snow and ice | 1,348 51 | 825 04 | 523 47 |
| Cost of inspection | 1,218 00 | 1,200 00 | 18 00 |
| Total | 40,000 00 | 44,903 67 | 4,963 67 |

* 121,670,861 square yards.

D. Murphy and P. J. Coffee were the contractors for alley cleaning, at 40 cents per 1,000 square yards.

The expenditures were as follows:

Alley cleaning.

| | 1884-'85. | 1885-'86. | Difference. |
|-------------------------------|------------|------------|-------------|
| Cleaning paved alleys | \$7,478 65 | \$8,087 89 | \$609 24 |
| Cleaning unpaved alleys | 905 49 | 325 85 | 579 64 |
| Cost of inspection | 1,480 00 | 1,580 00 | 100 00 |
| Total | 9,864 14 | 9,993 74 | 129 60 |

As the area of paved streets will increase yearly, and the travel on important streets increases with the city's growth, necessitating more frequent sweeping, it is evident that the cost of street cleaning will annually increase. For the present fiscal year the appropriation for street and alley cleaning is \$58,000, and the streets are swept on the following schedule, at the contract rate of 25½ cents per 1,000 yards.

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[To be swept daily, except Sunday.]

| Street. | From— | To— | Square yards. |
|-----------------------------|------------------------------|-------------------------------|---------------|
| Pennsylvania avenue | First street west | Seventeenth street west | 104, 700 |
| C street north | Seventh street west | Eighth street west | 1, 275 |
| E street north | Thirteenth street west | Pennsylvania avenue | 1, 581 |
| Fifteenth street west | Pennsylvania avenue | New York avenue | 5, 400 |
| | | | 112, 956 |

[To be swept three times a week.]

| | | | |
|---------------------------|--------------------------------|---------------------------------|---------|
| Pennsylvania avenue | Seventeenth street west | Twenty-ninth street west | 44, 550 |
| Seventh street west | Pennsylvania avenue | B street north | 1, 816 |
| Ninth street west | Pennsylvania avenue | B street north | 2, 786 |
| F street north | Seventh street west | Fifteenth street west | 21, 735 |
| M street north | Twenty-ninth street west | Thirty-fourth street west | 18, 983 |
| | | | 89, 867 |

[To be swept twice a week.]

| | | | |
|---------------------------|-------------------------------|---------------------------------|----------|
| Seventh street west | Pennsylvania avenue | Q street north | 35, 930 |
| Seventh street west | B street north | Water street | 28, 900 |
| Ninth street west | Pennsylvania avenue | Massachusetts avenue | 20, 296 |
| Little B street | Tenth street west | Twelfth street west | 3, 620 |
| G street north | Seventeenth street west | Twenty-second street west | 10, 623 |
| Louisiana avenue | Eighth street west | Tenth street west | 6, 120 |
| Twelfth street west | B street north | Water street | 15, 110 |
| Opera square | | | 600 |
| Mount Vernon square | Seventh street west | Ninth street west | 5, 124 |
| D street north | Sixth street west | Tenth street west | 6, 278 |
| | | | 132, 601 |

To be swept once a week, one hundred and thirty-one streets and avenues, 1,483,271 square yards.
To be swept once in two weeks, one hundred and twelve streets and avenues, 762,796 square yards.

The following streets should be added to the daily schedule:

| Street. | From— | To— | Square yards. |
|---------------------------|---------------------------|-----------------------------|---------------|
| Seventh street west | B street north | Mount Vernon square | 13, 543 |
| Ninth street west | Pennsylvania avenue | B street north | 2, 786 |
| F street north | Seventh street west | Fifteenth street west | 21, 735 |
| Louisiana avenue | Eighth street west | Tenth street west | 6, 120 |

The following streets should be added to the tri-weekly schedule:

| Street. | From— | To— | Square yards. |
|-------------------------|-------------------------------|---------------------------------|---------------|
| G street north | Seventeenth street west | Twenty-second street west | 10, 623 |
| D street north | Sixth street west | Tenth street west | 6, 278 |
| Ninth street west | Pennsylvania avenue | G street north | 8, 900 |

About 10 per cent. of the weekly streets (148,827 square yards) should be swept twice a week, and 10 per cent. of the bi-weekly streets (76,280 square yards) should be swept weekly. These changes would involve an increase of 20,905,268 square yards in the area swept during the year, and at the present contract rates would require an additional expenditure of \$5,331.

About 100,000 square yards of new pavement can be laid yearly with the average appropriation for "street improvements." If these pave-

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ments be swept once a week, at the present contract rates, the annual increased expenditure from this cause will be \$1,326.

Under the permit system the area of paved alleys will be considerably increased this year, and not less than \$8,000 is required for cleaning and sprinkling macadamized and graveled streets. The appropriation could be advantageously increased to \$70,000 for the year 1887-'88.

LIGHTING STREETS.

Appropriation, \$100,000.

The following table contains a summary of the year's operations:

| | 1884-'85. | 1885-'86. | Increase. |
|---|-------------|-------------|-----------|
| Number of lamps erected..... | 125 | 131 | 6 |
| Total number of lamps..... | 4,491 | 4,622 | 131 |
| Cost of lighting city, cleaning, repairs, &c..... | \$95,742 31 | \$95,803 05 | \$60 74 |
| Purchase of lamps..... | 724 95 | 2,133 21 | 1,408 26 |
| Total expenditure..... | 96,467 26 | 97,936 26 | 1,469 00 |

The lamps burn twenty-six hundred hours each, and are paid \$20 a year.

Further details are given in the report of the acting superintendent of lamps.

In 1883 the First Comptroller disallowed all expenditures for erecting lamps during the five years 1878-'83, and in May, 1883, the gas companies were required to refund all payments made on this account, amounting to several thousand dollars. They at once entered suit against the District for this amount. During the past year these suits have been decided, judgment being entered against the District in the following sums:

| | |
|------------------------------------|------------|
| Washington Gas-Light Company | \$3,906 40 |
| Georgetown Gas-Light Company | 790 66 |
| Total..... | 4,697 06 |

PARKING COMMISSION.

Appropriation, \$18,000.

The following is a summary of the year's work as contrasted with that of the previous year:

| | 1884-'85. | 1885-'86. | Increase. |
|--|-----------|-----------|-----------|
| Trees planted | | | |
| Old trees removed..... | 2,084 | 2,794 | 710 |
| Total number of trees on the street..... | 258 | 337 | 79 |
| Number of varieties..... | 64,571 | 67,028 | |
| | 36 | 26 | |

The report of the parking commission gives the details of this work, which has been intelligently directed and has contributed in large measure to the beauty, comfort, and welfare of the city.

COUNTY ROADS.

Appropriation, \$40,000.

County roads (so called), suburban streets, and city streets are the three heads under which Congress classifies the public highways of the

District in the appropriation acts. Many streets north of the Boundary are to all intents and purposes city streets, and the division between county roads and suburban streets is difficult to determine.

For administrative purposes the county roads are divided into three districts: the central district, bounded by Rock Creek and the Eastern Branch; the eastern district, east of the Eastern Branch; and the western district, west of Rock Creek.

The minor repairs in each district are under the direction of a supervisor, while the superintendent of county roads, under instructions from this office, has general charge of all work, whether executed by contract or by day labor.

The report of the superintendent of county roads contains a tabulated statement of all expenditure upon each road in the District, from 1879 to 1886. The distribution of the appropriation among the three districts varies from year to year, but the total expenditures approximate generally to the ratio of taxable property in each district. While this ratio may be taken as a general guide in the allotment of each appropriation, the number of miles of road, the character and extent of the traffic to which they are subjected, and the expenditures already made, must be largely considered.

Seventh street, in the central district, supports the heaviest traffic of any road in the District of Columbia. The expenditures on this road, from all appropriations since 1879, reach the large total of \$74,993.58, an annual average of \$10,713.39. The grades on this road and the heavy traffic to which it is subjected, cause the rapid deterioration of the best laid macadam, and indicate the necessity of substituting a stone block pavement on that portion of the road near Boundary street.

The macadamizing of the Tennallytown turnpike will be continued this year, and a portion of the Bladensburg road, beginning at the Boundary, will also be macadamized. Another year will probably see these improvements completed to the District line. Bennings road, including the causeway, should be raised, widened, and macadamized. The macadam surface of the canal road needs renewing and minor repairs to a greater or less extent are needed on many of the important roads. As each road is put in good condition it should be so maintained, and this can only be done by a thorough patrol system which should detect and check in its incipency any appearance of deterioration. With the prospect of steady work a reliable driver, with his horse and cart, can be employed for \$3 per day or \$78 per month. For nine months in the year the annual expense would be \$702. The principal county roads, comprising about 30 miles, should and could be maintained in perfect condition by such a system. One patrolman should, on the average, maintain 3 miles, which would require ten men for the above number of miles of road. This would be an annual charge of \$7,020 against the appropriation for county roads and would inaugurate a satisfactory and economical system. Broken stone and gravel could be deposited at convenient points along the roads, and the patrolmen would be required to keep the gutters free and unobstructed, maintain the surface and slopes of the road bed, fill ruts and depressions on their first appearance, remove the loose stone, and generally maintain the road and be responsible for its proper condition.

All extensive repairs will, of course, have to be done under the present system. Patrolmen can only maintain roads already improved.

The details of the expenditure of the appropriation for 1885-'86 are contained in the report of the superintendent of county roads.

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SURVEY OF THE DISTRICT.

Appropriation, \$50,000.

The detailed topographical survey of the District is under the immediate charge of Assistant J. W. Donn, of the Coast Survey. The finished map will consist of sixty sheets, each covering about one square mlie.

The triangulation is completed. The progress of the detailed field-work is shown by the following table:

| | 1884-'85. | 1885-'86. |
|--|-----------|-----------|
| Sheets photolithographed | 9 | 12 |
| Sheets of field-work completed | | 3 |
| Sheets of field-work partially completed | | 6 |
| Sheets of field-work not commenced | | 39 |
| Total | | 60 |

The field-work of the entire western division is completed at this date (November 29, 1886) with the exception of about three square miles.

ORGANIZATION.

In concluding this report, I would respectfully invite attention to the fact that all the work of repairs to streets, avenues, and alleys, permit work, repair of dangerous holes, ordinary repairs to bridges within the city limits, cleaning and repairing lateral sewers and basins, and cleaning tidal sewers is under the direction of the superintendent of streets. This work has so increased in extent and multiplicity of details as to indicate the necessity of making some division, such as, for example, concentrating all sewer work in a sewer department. Such a separation of surface from sub-surface work would be in harmony with the rule followed in the assignment of duties to the two assistants to the Engineer Commissioner.

Very respectfully, your obedient servant,

EUGENE GRIFFIN,
Captain of Engineers.

Col. WILLIAM LUDLOW,
Corps of Engineers, U. S. Army,
Engineer Commissioner, D. C.

SCHEDULE OF WORK ON CITY STREETS PROPOSED FOR THE FISCAL YEAR ENDING JUNE 30, 1888.

GEORGETOWN.

| Street. | From— | To— | Square yards. | Cost. | Total. |
|----------------------------|-------------------------|-------------------------|---------------|--------|------------|
| Twenty-ninth street | K street | M street | 3,000 | \$3 00 | \$9,000 00 |
| Thirty-first street | do | do | 3,000 | 3 00 | 9,000 00 |
| Thirty-fourth street | M street | N street | 833 | 2 65 | 2,267 45 |
| Q street | Thirtieth street | Thirty-second street .. | 4,870 | 2 65 | 13,000 00 |
| Thirty-fifth street | P street | Q street | 1,400 | 2 65 | 3,710 00 |
| Dumbarton street | Twenty-eighth street .. | Thirty-second street .. | 3,650 | 2 65 | 12,000 00 |
| | | | | | 48,917 45 |

NORTHWEST SECTION.

| | | | | | |
|-----------------------|---------------------------|--------------------------|-------|--------|-------------|
| Q street | Fifth street | Rhode Island avenue .. | 4,150 | \$2 65 | \$10,997 00 |
| R street | Seventh street | Ninth street | 1,891 | 2 65 | 5,011 15 |
| Do | Sixteenth street | Seventeenth street | 1,800 | 2 65 | 4,800 00 |
| Do | Twenty-first street | Connecticut avenue | 1,244 | 2 65 | 3,300 00 |
| Eighth street | R street | S street | 1,777 | 2 65 | 4,479 00 |
| Eleventh street | O street | Rhode Island avenue .. | 1,162 | 2 65 | 3,074 30 |

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Schedule of work on city streets proposed, &c.—Continued.

NORTHWEST SECTION—Continued.

| Street. | From— | To— | Square yards. | Cost. | Total. |
|----------------------|----------------------|----------------------|---------------|-------|------------|
| Twelfth street | Rhode Island avenue | Vermont avenue | 2,133 | 2 65 | \$5,652 45 |
| S street | Seventh street | Eleventh street | 4,622 | 2 65 | 12,248 30 |
| Q street | Seventeenth street | Connecticut avenue | 4,622 | 2 65 | 12,248 30 |
| Seventeenth street | P street | Q street | 1,777 | 2 65 | 4,709 05 |
| Do | Q street | R street | 1,800 | 2 65 | 4,800 00 |
| Eighteenth street | P street | Q street | 1,777 | 2 65 | 4,709 05 |
| New Hampshire avenue | Q street | T street | 12,600 | 2 65 | 33,372 50 |
| I street | Twenty-first street | Twenty-second street | 2,605 | 2 65 | 6,903 25 |
| New York avenue | Seventh street | Fifth street | 4,166 | 2 65 | 11,639 90 |
| Fifteenth street | Pennsylvania avenue | New York avenue | 2,333 | 3 00 | 6,999 00 |
| Twenty-third street | I street | Pennsylvania avenue | 1,422 | 2 65 | 3,768 00 |
| Tenth street | R street | S street | 1,777 | 2 65 | 4,709 05 |
| Twenty-first street | Corcoran street | R street | 900 | 2 65 | 2,400 00 |
| E street | New Jersey avenue | North Capitol street | 2,140 | 2 65 | 5,671 00 |
| F street | do | do | 2,851 | 2 65 | 7,555 15 |
| G street | do | do | 3,111 | 2 65 | 8,244 15 |
| Massachusetts avenue | do | do | 4,722 | 2 65 | 12,513 30 |
| North Capitol street | Massachusetts avenue | E street | 1,300 | 2 65 | 3,445 00 |
| Do | I street | K street | 1,300 | 2 65 | 3,445 00 |
| Twenty-fifth street | Pennsylvania avenue | M street | 1,625 | 2 65 | 5,000 00 |
| Seventh street | E street | G street | 1,625 | 2 65 | 5,000 00 |

Filling streets below grade, provided cost does not exceed 10 cents per cubic yard

196,103 90

9,500 00

SOUTHWEST SECTION.

| | | | | | |
|----------|----------------|------------------------|-------|--------|------------|
| E street | Third street | Virginia avenue | 1,361 | \$2 65 | \$3,606 65 |
| C street | First street | Four-and-a-half street | 5,405 | 2 65 | 14,323 25 |
| E street | Seventh street | River | 9,916 | 1 00 | 9,916 00 |
| H street | Third street | Four-and-a-half street | 2,430 | 2 65 | 6,439 50 |
| G street | do | do | 2,430 | 1 00 | 2,430 00 |
| D street | do | do | 2,330 | 2 50 | 5,800 00 |
| | | | | | 42,515 40 |

SOUTHEAST SECTION.

| | | | | | |
|-----------------|---------------------|-----------------------|--------|--------|------------|
| Sixth street | Pennsylvania avenue | E street | 2,743 | \$2 50 | \$7,068 95 |
| Seventh street | do | East Capitol street | 6,400 | 2 50 | 16,000 00 |
| B street | Fifth street | North Carolina avenue | 3,403 | 2 65 | 9,017 95 |
| A street | Sixth street | Seventh street | 2,333 | 2 65 | 6,182 45 |
| Third street | Pennsylvania avenue | C street | 888 | 2 50 | 2,220 00 |
| Virginia avenue | Third street | Eleventh street | 20,000 | 1 00 | 20,000 00 |
| | | | | | 60,489 35 |

NORTHEAST SECTION.

| | | | | | |
|----------------------|----------------------|----------------------|-------|--------|------------|
| Third street | C street | Maryland avenue | 900 | \$2 65 | \$2,400 00 |
| Second street | Maryland avenue | C street | 1,620 | 2 50 | 4,050 00 |
| B street | Sixth street | Massachusetts avenue | 2,344 | 2 65 | 6,213 30 |
| A street | Fourth street | Seventh street | 4,000 | 2 65 | 10,600 00 |
| C street | Sixth street | Eleventh street | 6,200 | 90 | 5,579 50 |
| G street | North Capitol street | Second street | 4,911 | 1 00 | 4,910 70 |
| Seventh street | East Capitol street | Massachusetts avenue | 2,711 | 2 65 | 7,184 15 |
| North Capitol street | Massachusetts avenue | E street | 1,300 | 2 65 | 3,445 00 |
| Do | I street | K street | 1,300 | 2 65 | 3,445 00 |
| | | | | | 47,832 65 |

Table of population, area, assessed values, and cost of street improvements for 1887-'88, with percentages of each.

| Section. | Estimated expenditures for improvements. | | City area. | | Value of taxable property. | | Population. | |
|--------------|--|--------------|-----------------|---------------|----------------------------|--------------|----------------|--------------|
| | Amount. | Per cent. | Acre. | Per cent. | Amount. | Per cent. | Number. | Per cent. |
| Georgetown | \$48,917 45 | 12.5 | 590.95 | 9.2 | \$1,615,273 | 4.6 | 14,322 | 7.6 |
| Northwest | 196,103 90 | 48.3 | 2,720.79 | 41.54 | 78,525,687 | 78.0 | 107,450 | 57.0 |
| Southwest | 42,515 40 | 10.5 | 957.42 | 14.62 | 6,360,756 | 6.3 | 27,228 | 14.4 |
| Southeast | 60,489 35 | 14.7 | 1,247.40 | 19.04 | 6,191,195 | 6.1 | 21,561 | 11.4 |
| Northeast | 47,832 65 | 11.6 | 1,033.56 | 15.78 | 4,986,908 | 5.0 | 18,008 | 9.6 |
| Filling, &c. | 9,500 00 | 2.4 | | | | | | |
| | 405,358 75 | 100.0 | 6,550.12 | 100.00 | 100,685,819 | 100.0 | 188,549 | 100.0 |

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APPENDIX No. 2.

Tabulated statement showing the estimates and appropriations for the past eight years

| | 1880. | |
|---|-------------|---------------|
| | Estimated. | Appropriated. |
| <i>Salaries and contingent.</i> | | |
| Executive office | \$21,000 00 | \$21,000 00 |
| Assessor's office | 23,500 00 | 20,350 00 |
| Collector's office | 15,000 00 | 13,800 00 |
| Anditor's office | 19,000 00 | 19,000 00 |
| Attorney's office | 10,000 00 | 9,000 00 |
| Sinking fund | 2,700 00 | 2,700 00 |
| Coroner's office | 2,500 00 | 2,500 00 |
| Engineer's office | 86,735 00 | 81,700 00 |
| Miscellaneous expenses, District office | 3,000 00 | 3,000 00 |
| Expenses of assessment of real property | | |
| Total salaries and contingent | 183,435 00 | 173,050 00 |
| <i>Improvements and repairs.</i> | | |
| Repairs to concrete pavement | 135,000 00 | 100,000 00 |
| Material for permit work | 15,000 00 | 15,000 00 |
| Continuing surveys of the District | | |
| For sewers | | 115,000 00 |
| Work on streets and avenues | 560,000 00 | 250,000 00 |
| Total improvements and repairs | 710,000 00 | 480,000 00 |
| Constructing and maintaining and repairing bridges | 9,200 00 | 10,200 00 |
| Washington aqueduct | 20,000 00 | 20,000 00 |
| Redemption of certificates of indebtedness | | |
| Sewer debt | | |
| | 29,200 00 | 30,200 00 |
| <i>Reformatories and prisons.</i> | | |
| Washington Asylum | | |
| Reform School | 45,000 00 | 45,160 00 |
| Georgetown almshouse | 20,000 00 | 20,000 00 |
| Transportation of paupers, &c. | 1,800 00 | 1,800 00 |
| Industrial Home School | 2,500 00 | 2,500 00 |
| | | 5,000 00 |
| Total reformatories and prisons | 69,300 00 | 74,460 00 |
| Support of indigent insane | 17,000 00 | 17,000 00 |
| <i>Charities.</i> | | |
| Relief of the poor | | |
| Columbia Hospital for Women | 15,000 00 | 15,000 00 |
| Women's Christian Association | | 12,000 00 |
| Association for Destitute Colored Women and Children | | 5,000 00 |
| Association for Destitute Colored Women and Children (building) | | 6,500 00 |
| Children's Hospital | | |
| Little Sisters of the Poor | | 5,000 00 |
| German Orphan Asylum | | |
| Howard University | | |
| Saint Ann's Infant Asylum | | 10,000 00 |
| Church Orphanage | | 5,000 00 |
| Homeopathic Hospital building | | |
| Saint Rose Industrial School (buildings) | | |
| House of Good Shepherd (buildings) | | |
| Association for Works of Mercy (buildings) | | |
| Washington Hospital for Foundlings (complete building) | | |
| Total for charities | 15,000 00 | 58,500 00 |
| <i>For streets.</i> | | |
| Sweeping, cleaning, &c., streets, avenues, and alleys | | |
| Current repair of streets, avenues, and alleys | 42,600 00 | 42,600 00 |
| Current work on county roads, &c. | 75,500 00 | 75,500 00 |
| Cleaning sewers and basins | | |
| Repairs to pumps | | 10,000 00 |
| Parking commission | | 2,500 00 |
| Lighting streets, avenues, and alleys | 2,500 00 | 13,400 00 |
| Opening and extending suburban streets | 140,000 00 | 130,370 00 |
| Total streets | 274,000 00 | 274,370 00 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 149

APPENDIX No. 2.

for the maintenance and support of the government of the District of Columbia.

| 1881. | | 1882. | | 1883. | |
|-------------|---------------|-------------|---------------|-------------|---------------|
| Estimated. | Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. |
| \$22,140 00 | \$22,140 00 | \$22,140 00 | \$22,140 00 | \$23,314 04 | \$21,200 11 |
| 27,800 00 | 27,200 00 | 27,000 00 | 17,500 00 | 23,000 00 | 17,500 00 |
| 11,500 00 | 11,500 00 | 13,900 00 | 10,000 00 | 13,500 00 | 13,000 00 |
| 13,000 00 | 13,000 00 | 12,800 00 | 12,800 00 | 12,900 00 | 12,900 00 |
| 9,000 00 | 9,000 00 | 9,000 00 | 8,812 00 | 9,000 00 | 8,812 00 |
| 2,700 00 | 2,700 00 | 2,700 00 | 2,700 00 | 3,700 00 | 2,700 00 |
| 2,050 00 | 2,450 00 | 2,800 00 | 2,500 00 | 2,500 00 | 2,500 00 |
| 73,686 00 | 72,306 00 | 68,925 00 | 68,625 00 | 69,675 00 | 67,225 00 |
| 3,500 00 | 3,500 00 | 3,500 00 | 3,500 00 | 3,500 00 | 3,500 00 |
| 155,370 00 | 163,796 00 | 162,765 00 | 148,577 00 | 161,089 04 | 149,337 11 |
| 75,000 00 | 75,000 00 | 75,000 00 | 50,000 00 | 50,000 00 | 50,000 00 |
| 20,000 00 | 20,000 00 | 20,000 00 | 20,000 00 | 20,000 00 | 20,000 00 |
| 10,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 |
| 161,000 00 | 161,600 00 | 132,000 00 | 72,000 00 | 155,000 00 | 105,000 00 |
| 431,600 00 | 300,000 00 | 320,364 03 | 300,000 00 | 273,000 00 | 300,000 00 |
| 697,600 00 | 561,600 00 | 552,364 03 | 447,000 00 | 503,000 00 | 480,000 00 |
| 11,500 00 | 11,500 00 | 2,500 00 | 2,500 00 | 12,700 00 | 12,700 00 |
| 20,000 00 | 20,000 00 | 20,000 00 | 20,000 00 | 20,000 00 | 20,000 00 |
| 31,500 00 | 31,500 00 | 22,500 00 | 22,500 00 | 32,700 00 | 32,700 00 |
| 38,200 00 | 48,040 00 | 53,200 00 | 49,140 00 | 54,640 00 | 46,820 00 |
| 25,000 00 | 25,000 00 | 25,000 00 | 31,614 00 | 38,674 00 | 37,950 00 |
| 1,800 00 | 1,800 00 | 1,800 00 | 1,800 00 | 1,800 00 | 1,800 00 |
| 2,500 00 | 3,500 00 | 3,500 00 | 3,000 00 | 3,500 00 | 3,000 00 |
| 67,500 00 | 88,340 00 | 88,500 00 | 96,054 00 | 103,614 00 | 94,570 00 |
| 20,484 80 | 37,000 00 | 37,000 00 | 40,000 00 | 40,000 00 | 43,200 00 |
| 15,000 00 | 10,000 00 | 15,000 00 | 15,000 00 | 15,000 00 | 15,000 00 |
| 18,000 00 | 18,000 00 | 15,000 00 | 15,800 00 | 15,000 00 | 15,000 00 |
| 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 |
| 6,500 00 | 6,500 00 | 6,500 00 | 6,500 00 | 6,500 00 | 6,500 00 |
| 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 |
| 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 |
| 10,000 00 | 10,000 00 | 10,000 00 | 10,000 00 | 10,000 00 | 10,000 00 |
| 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 |
| 15,000 00 | 64,500 00 | 40,000 00 | 52,300 00 | 30,000 00 | 56,500 00 |
| 43,600 00 | 43,600 00 | 36,500 00 | 36,500 00 | 40,500 00 | 40,500 00 |
| 105,000 00 | 85,000 00 | 45,000 00 | 25,000 00 | 30,000 00 | 30,000 00 |
| 3,000 00 | 3,000 00 | 25,000 00 | 20,000 00 | 41,732 00 | 21,000 00 |
| 3,000 00 | 3,000 00 | 43,000 00 | 25,000 00 | 28,000 00 | 28,000 00 |
| 13,400 00 | 13,400 00 | 3,000 00 | 3,000 00 | 3,500 00 | 3,000 00 |
| 123,470 00 | 123,400 00 | 18,000 00 | 18,000 00 | 18,000 00 | 18,000 00 |
| 291,470 00 | 271,400 00 | 124,900 00 | 111,325 00 | 108,150 00 | 107,650 00 |
| 291,470 00 | 271,400 00 | 295,400 00 | 238,825 00 | 269,882 00 | 258,150 00 |

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Tabulated statement showing the estimates and appropriations for the past eight years for

| | 1880. | |
|--|----------------|----------------|
| | Estimated. | Appropriated. |
| Metropolitan police | \$300 000 00 | \$305, 210 00 |
| Fire department..... | 115, 000 00 | 105, 700 00 |
| Telegraph and telephone service | | |
| Courts | 18, 500 00 | 18, 500 00 |
| | 433, 500 00 | 429, 440 00 |
| <i>For public schools.</i> | | |
| For tools and machinery for industrial instruction..... | | |
| For officers..... | | |
| For teachers..... | | |
| For eight supervising principals..... | | |
| For night schools..... | | |
| For contingent expenses, night schools..... | | |
| For janitors, care of building..... | | |
| For rent of school buildings..... | | |
| For fuel..... | 30, 000 00 | 30, 000 00 |
| For repairs and improvements..... | 12, 000 00 | 12, 000 00 |
| For contingent expenses, furniture, &c..... | 25, 000 00 | 25, 000 00 |
| For purchase of sites, new buildings, and furniture..... | 21, 587 37 | 21, 587 37 |
| For sanitary improvements in old buildings..... | | 75, 000 00 |
| Total public schools | 400, 000 00 | 475, 000 00 |
| <i>Miscellaneous expenses.</i> | | |
| Repairs and replacement of hay scales | 200 00 | 200 00 |
| Rent of District offices | 6, 000 00 | 6, 000 00 |
| General advertising | 7, 000 00 | 7, 000 00 |
| Books for Register of Wills, printing, &c..... | 6, 500 00 | 6, 500 00 |
| Total miscellaneous | 19, 700 00 | 19, 700 00 |
| Interest and sinking fund | | |
| General contingent fund for emergencies..... | 1, 216, 124 12 | 1, 155, 583 53 |
| Municipal buildings..... | | 20, 000 00 |
| For the payment of judgments against District of Columbia..... | | |
| Health department..... | 32, 355 00 | 34, 755 00 |
| Total..... | 1, 248, 479 12 | 1, 210, 338 55 |
| Rent of market site and property yard..... | | |
| Revision of laws..... | | 1, 175 00 |
| Purchase of police-court building..... | | 5, 000 00 |
| Removal of bodies from Holmead Cemetery..... | | |
| Condemnation of land for alleys, streets, and roads..... | | |
| Payment of Linthicum loan (school)..... | | |
| Repair of Georgetown market house..... | | |
| Payment of referees of Court of Claims..... | | |
| Total..... | | 6, 175 00 |
| <i>Water department.</i> | | |
| Salaries and contingent expenses..... | | |
| For engineers, fireman, pipe distribution, &c..... | | |
| Interest and sinking fund on water stock bonds..... | | |
| Interest and sinking fund on account of water supply..... | | |
| Total water department..... | | |
| For two pumping engines, &c..... | | |
| For improvement and protection of harbor, &c..... | | |

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Tabulated statement showing the estimates and appropriations for the past eight years for

| | 1884. | |
|--|-------------|---------------|
| | Estimated. | Appropriated. |
| <i>Salaries and contingent.</i> | | |
| Executive office..... | \$21,600 11 | \$21,101 50 |
| Assessor's office..... | 19,400 00 | 12,600 00 |
| Collector's office..... | 11,500 00 | 17,300 00 |
| Auditor's office..... | 12,750 00 | 15,200 00 |
| Attorney's office..... | 8,812 00 | 8,812 00 |
| Sinking fund..... | 2,700 00 | 2,700 00 |
| Coroner's office..... | 2,500 00 | 2,500 00 |
| Engineer's office..... | 69,688 00 | 61,550 00 |
| Miscellaneous expenses, District office..... | 3,500 00 | 5,000 00 |
| Expenses of assessment of real property..... | | |
| Total salaries and contingent..... | 154,450 11 | 146,763 50 |
| <i>Improvements and repairs.</i> | | |
| Repairs to concrete pavement..... | \$50,000 00 | \$30,000 00 |
| Material for permit work..... | 35,000 00 | 30,000 00 |
| Continuing surveys of the District..... | 5,000 00 | 5,000 00 |
| For sewers..... | 98,000 00 | 95,000 00 |
| Work on streets and avenues..... | 313,685 61 | 350,000 00 |
| Total improvements and repairs..... | 503,685 61 | 530,000 00 |
| Constructing and maintaining and repairing bridges..... | 3,500 00 | 3,500 00 |
| Washington aqueduct..... | 20,000 00 | 20,000 00 |
| Redemption of certificates of indebtedness..... | | |
| Sewer debt..... | | |
| | 23,500 00 | 23,500 00 |
| <i>Reformatories and prisons.</i> | | |
| Washington Asylum..... | 52,364 00 | 46,320 00 |
| Reform School..... | 36,700 00 | 32,950 00 |
| Georgetown almshouse..... | 1,800 00 | 1,800 00 |
| Transportation of paupers, &c..... | 3,000 00 | 3,000 00 |
| Industrial Home School..... | 5,000 00 | 10,000 00 |
| Total reformatories and prisons..... | 98,864 00 | 94,070 00 |
| Support of indigent insane..... | | 46,700 00 |
| <i>Charities.</i> | | |
| Relief of the poor..... | 15,000 00 | 15,000 00 |
| Columbia Hospital for Women..... | 13,000 00 | 15,000 00 |
| Women's Christian Association..... | | 5,000 00 |
| Association for Destitute Colored Women and Children..... | | 7,000 00 |
| Association for Destitute Colored Women and Children (building)..... | | 20,000 00 |
| Children's Hospital..... | | 5,000 00 |
| Little Sisters of the Poor..... | | |
| German Orphan Asylum..... | | |
| Howard University..... | | |
| St. Ann's Infant Asylum..... | | |
| Church Orphanage..... | | 5,000 00 |
| Homeopathic Hospital building..... | | 1,500 00 |
| St. Rose Industrial School (buildings)..... | | |
| House of Good Shepherd (buildings)..... | | |
| Association for Works of Mercy (buildings)..... | | |
| Washington Hospital for Foundlings (complete building)..... | | |
| Total for charities..... | 30,000 00 | 73,500 00 |
| <i>For streets.</i> | | |
| Sweeping, cleaning, &c., streets, avenues, and alleys..... | 55,000 00 | 47,500 00 |
| Current repair of streets, avenues, and alleys..... | 30,000 00 | 25,000 00 |
| Current work on county roads, &c..... | 25,000 00 | 20,000 00 |
| Cleaning sewers and basins..... | 23,000 00 | 23,000 00 |
| Repairs to pumps..... | 3,500 00 | 3,000 00 |
| Parking commission..... | 18,000 00 | 18,000 00 |
| Lighting streets, avenues, and alleys..... | 108,250 00 | 95,380 00 |
| Opening and extending suburban streets..... | | |
| Total streets..... | 262,750 00 | 231,880 00 |
| Metropolitan Police..... | 307,020 00 | 301,560 00 |
| Fire department..... | 103,040 00 | 101,060 00 |
| Telegraph and telephone service..... | 13,190 00 | 12,440 00 |
| Courts..... | 15,418 00 | 15,418 00 |
| | 438,668 00 | 430,478 00 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 153

the maintenance and support of the government of the District of Columbia—Continued.

| 1885. | | 1886. | | 1887. | | Estimates for 1888. |
|-------------|---------------|-------------|---------------|-------------|---------------|---------------------|
| Estimated. | Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. | |
| \$21,581 50 | \$21,244 00 | \$21,241 00 | \$21,244 00 | \$21,844 00 | \$22,444 00 | \$22,784 00 |
| 13,500 00 | 13,600 00 | 13,600 00 | 13,600 00 | 15,600 00 | 14,600 00 | 16,500 00 |
| 17,300 00 | 17,300 00 | 17,300 00 | 17,300 00 | 18,500 00 | 19,200 00 | 16,600 00 |
| 16,500 00 | 16,643 00 | 16,500 00 | 16,500 00 | 16,500 00 | 16,500 00 | 16,900 00 |
| 8,792 00 | 8,612 00 | 8,712 00 | 8,712 00 | 9,000 00 | 8,700 00 | 9,800 00 |
| 2,700 00 | 2,700 00 | 2,700 00 | 2,700 00 | 3,100 00 | 2,700 00 | 2,700 00 |
| 2,500 00 | 2,500 00 | 2,500 00 | 2,500 00 | 2,500 00 | 2,500 00 | 2,650 00 |
| 66,650 00 | 64,750 00 | 65,490 00 | 65,690 00 | 75,450 00 | 65,690 00 | 64,820 00 |
| 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | |
| | | | 15,000 00 | | | |
| 154,523 50 | 152,349 00 | 153,046 00 | 168,246 00 | 167,494 00 | 157,334 00 | 152,754 00 |
| \$50,000 00 | \$50,000 00 | \$50,000 00 | \$50,000 00 | \$75,000 00 | \$65,000 00 | \$90,000 00 |
| 50,000 00 | 50,000 00 | 50,000 00 | 50,000 00 | 50,000 00 | 60,000 00 | 90,000 00 |
| 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 5,000 00 | 4,000 00 | 15,000 00 |
| 100,000 00 | 100,000 00 | 25,000 00 | 25,000 00 | 75,000 00 | 45,000 00 | 105,000 00 |
| 30,000 00 | 263,000 00 | 325,000 00 | 265,000 00 | 325,000 00 | 2,600 00 | 405,000 00 |
| 505,000 00 | 468,000 00 | 455,000 00 | 395,000 00 | 50,000 00 | 410,000 00 | 705,000 00 |
| 2,500 00 | 2,500 00 | 8,000 00 | 9,380 00 | 7,000 00 | 12,660 00 | 13,500 00 |
| 22,000 00 | 20,000 00 | 20,000 00 | 20,000 00 | 20,000 00 | 20,000 00 | 20,000 00 |
| | | | 366 96 | | | |
| | | 50,000 00 | | | | |
| 24,500 00 | 22,500 00 | 78,000 00 | 29,746 96 | 27,000 00 | 32,660 00 | 33,500 00 |
| 52,735 00 | 52,310 00 | 69,680 00 | 69,680 00 | 56,690 00 | 57,382 00 | 59,555 00 |
| 32,800 00 | 32,916 00 | 36,640 00 | 36,616 00 | 36,676 00 | 36,616 00 | 37,976 00 |
| 1,600 00 | 1,800 00 | 1,800 00 | 1,800 00 | 1,800 00 | 1,800 00 | 1,800 00 |
| 3,000 00 | 3,000 00 | 4,000 00 | 4,000 00 | 4,000 00 | 4,000 00 | 4,000 00 |
| 15,000 00 | 12,500 00 | 13,500 00 | 12,000 00 | 12,000 00 | 13,500 00 | 10,000 00 |
| 105,335 00 | 102,526 00 | 125,620 00 | 124,096 00 | 111,166 00 | 113,298 00 | 113,331 00 |
| 46,700 00 | 50,436 00 | 51,446 00 | 53,462 00 | 53,462 00 | 75,132 00 | 75,132 00 |
| 15,000 00 | 15,000 00 | 15,000 00 | 15,000 00 | 15,000 00 | 15,000 00 | |
| 15,000 00 | 15,000 00 | 15,000 00 | 15,000 00 | 15,000 00 | 15,000 00 | |
| | 5,000 00 | | 5,000 00 | | 4,000 00 | |
| | 7,000 00 | | 6,500 00 | | 6,500 00 | |
| | 2,000 00 | | 18,000 00 | | 2,500 00 | |
| | 5,000 00 | | 5,000 00 | | 5,000 00 | |
| | | | | | | |
| | | | | | | |
| | 5,000 00 | | 5,000 00 | | 5,000 00 | |
| | 1,500 00 | | 1,500 00 | | 1,500 00 | |
| | | | 15,000 00 | | 5,000 00 | |
| | | | | | 5,000 00 | |
| | | | | | 5,000 00 | |
| | | | | | 5,000 00 | |
| | | | | | 3,500 00 | |
| 30,000 00 | 55,500 00 | 30,000 00 | 86,000 00 | 30,000 00 | 78,000 00 | |
| 50,000 00 | 50,000 00 | 55,000 00 | 55,000 00 | 60,000 00 | 58,000 00 | 70,000 00 |
| 25,000 00 | 25,000 00 | 25,000 00 | 25,000 00 | 30,000 00 | 25,000 00 | 35,000 00 |
| 35,000 00 | 25,000 00 | 40,000 00 | 40,000 00 | 45,000 00 | 40,000 00 | 50,000 00 |
| 28,000 00 | 25,000 00 | 25,000 00 | 25,000 00 | 30,000 00 | 25,000 00 | 35,000 00 |
| 2,000 00 | 3,000 00 | 3,000 00 | 3,000 00 | 3,000 00 | 3,000 00 | 3,000 00 |
| 18,000 00 | 18,000 00 | 18,000 00 | 18,000 00 | 20,000 00 | 18,000 00 | 25,000 00 |
| 109,000 00 | 95,380 00 | 100,000 00 | 100,000 00 | 105,000 00 | 109,000 00 | 120,000 00 |
| | | | | 30,000 00 | 30,000 00 | 60,000 00 |
| 267,000 00 | 241,380 00 | 266,000 00 | 266,000 00 | 293,000 00 | 299,000 00 | 398,000 00 |
| 331,000 00 | 337,100 00 | 351,280 00 | 339,720 00 | 357,500 00 | 344,780 00 | 417,280 00 |
| 116,440 00 | 119,230 00 | 112,300 00 | 108,150 00 | 115,950 00 | 116,420 00 | 114,420 00 |
| 20,440 00 | 25,440 00 | 15,440 00 | 18,040 00 | 15,840 00 | 15,840 00 | 28,060 00 |
| 16,218 00 | 16,218 00 | 16,218 00 | 16,218 00 | 16,218 00 | 16,218 00 | 20,074 00 |
| 484,098 00 | 497,988 00 | 495,238 00 | 482,128 00 | 505,508 00 | 493,258 00 | 579,834 00 |

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Tabulated statement showing the estimates and appropriations for the past eight years for

| | 1884. | |
|---|---------------|---------------|
| | Estimated. | Appropriated. |
| <i>For public schools.</i> | | |
| For tools and machinery for industrial instruction | | |
| For officers | \$7,250 00 | \$7,050 00 |
| For teachers | 366,750 00 | 349,125 00 |
| For 8 supervising principals | | |
| For night schools | | |
| For contingent expenses, night schools | | |
| For janitors, care of buildings | | |
| For rent of school buildings | 26,600 00 | 23,500 00 |
| For fuel | | 8,000 00 |
| For repairs and improvements | } \$75,000 00 | } 18,000 00 |
| For contingent expenses, furniture, &c. | | |
| For purchase of sites, new buildings, and furniture | | 27,000 00 |
| For sanitary improvements in old buildings | 80,000 00 | 15,000 00 |
| | | 96,000 00 |
| Total public schools | 555,600 00 | 543,675 00 |
| <i>Miscellaneous expenses.</i> | | |
| Repairs and replacement of hay scales | | |
| Rent of District offices | 500 00 | 500 00 |
| General advertising | 3,600 00 | 3,600 00 |
| Books for Register of Wills, &c | 5,000 00 | 4,000 00 |
| | 3,000 00 | 2,500 00 |
| Total miscellaneous | 12,100 00 | 10,600 00 |
| Interest and sinking fund | | |
| General contingent fund for emergencies | 1,213,947 97 | 1,213,947 97 |
| Municipal buildings | 10,000 00 | 10,000 00 |
| For the payment of judgments against District of Columbia | | |
| Health department | 36,000 00 | 42,780 00 |
| Total | 1,259,947 97 | 1,266,727 97 |
| Rent of market site and property yard | | |
| Revision of laws | | |
| Purchase of police court building | | |
| Removal of bodies from Holmead Cemetery | | |
| Condemnation of land for alleys, streets, and roads | | |
| Payment of Linthicum loan (school) | | |
| Repair of Georgetown market house | | |
| Payment of referees of Court of Claims | | |
| Total | | |
| <i>Water department.</i> | | |
| Salaries and contingent expenses | | |
| For engineers, fireman, pipe distribution, &c | 11,842 00 | 11,742 00 |
| Interest and sinking fund on water stock bonds | 50,000 00 | 51,251 50 |
| Interest and sinking fund on account of water supply | 44,610 00 | 44,610 00 |
| Total water department | | |
| | 106,452 00 | 107,603 50 |
| For two pumping engines, &c. | | |
| For improvement and protection of harbor, &c | | |

APPENDIX 3.

REPORT OF THE CHIEF CLERK, DISTRICT OF COLUMBIA.

OFFICE OF THE ENGINEER COMMISSIONER,
Washington, D. C., December 3, 1886.

COLONEL: I have the honor to submit the following annual report of the operations of the clerical work performed in this department during the fiscal year ending June 30, 1886:

| | |
|---|-------|
| Number of communications received, briefed, and recorded in Letters Received Book | 3,590 |
| Upon these 11,850 indorsements have been made and 4,773 reports submitted. | |
| Number of orders and letters written | 2,579 |
| Number of copies of contracts drawn and recorded | 126 |
| Number of permits (gas, sewer, water, and miscellaneous) issued | 6,952 |
| Number of vouchers and bills prepared and forwarded in triplicate | 1,949 |

A consolidated summary statement of the operations of the department, showing the expenditures for the last fiscal year, and estimates for the ensuing year, is herewith submitted.

A classified tabulated statement of estimates and appropriations made from July 1, 1878, to June 30, 1887, is herewith submitted and marked as Appendix 21.

A schedule of work on city streets, which it is proposed to be done during the fiscal year ending June 30, 1888, is also submitted and marked as Appendix 18.

A consolidated statement of expenditures for improvements of streets and avenues from July 1, 1878 to July 1, 1887, is herewith submitted. This statement is classified so as to show separately the amount expended for improvement, area of city, population, and valuation of taxable property in all sections of the city.

Very respectfully,

JOSEPH C. ROCK,
Chief Clerk.

Col. WILLIAM LUDLOW,
Engineer Commissioner, District of Columbia.

Consolidated statement of the operations of the department, showing the expenditures for the last fiscal year and estimates for the ensuing year.

| Description. | Expenditure for fiscal year ending June 30, 1886. | Appropriation for fiscal year ending June 30, 1887. | Estimate for fiscal year ending June 30, 1888. |
|---|---|---|--|
| Engineer department: | | | |
| Salaries | | | |
| Contingent expenses | \$59,222 33 | \$59,890 00 | \$58,220 00 |
| Purchase and repair of instruments | 5,000 00 | 5,000 00 | 5,000 00 |
| Office of inspector of gas and meters, contingent expenses | | | 800 00 |
| Water department: | | | |
| Salaries | 702 70 | 800 00 | 800 00 |
| Contingent expenses | | | |
| Pumping expenses and pipe distribution | 9,339 00 | 9,539 00 | 15,936 00 |
| Two steam-boilers for high service in Washington and Georgetown | 2,373 60 | 2,400 00 | 3,000 00 |
| Interest and sinking fund on account of water supply | 69,475 78 | 75,000 00 | 125,000 00 |
| Cleaning and repairing lateral sewers and basins | 55,047 27 | 57,239 02 | 35,000 00 |
| Cleaning sewers and basins | 44,610 00 | 44,610 00 | 76,655 69 |
| Cleaning and repairing sewers and basins | 20,000 00 | | 44,610 00 |
| Lateral sewers | | 25,000 00 | |
| | 24,885 04 | | 35,000 00 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 157

Consolidated statement of the operations of the department, &c.—Continued.

| Description. | Expenditure for fiscal year ending June 30, 1886. | Appropriation for fiscal year ending June 30, 1887. | Estimate for fiscal year ending June 30, 1888. |
|---|---|---|--|
| For sewers..... | | \$45,000 00 | |
| Completion of sewerage system of District of Columbia .. | \$211,095 47 | 20,000 00 | |
| Replacing obstructed sewers..... | | | \$10,000 00 |
| Suburban sewers..... | | | 25,000 00 |
| Main and pipe sewers..... | | | 70,000 00 |
| Cleaning tidal sewers and Rock Creek basin .. | 5,000 00 | | |
| Public bay-scales, repair and replacement of .. | 75 38 | 500 00 | |
| Pumps, purchase and repair of .. | 2,989 14 | 3,000 00 | 750 00 |
| Work on sundry avenues and replacement of pavements .. | 264,818 83 | 266,000 00 | 405,000 00 |
| Repairs to concrete pavements..... | 49,998 44 | 65,000 00 | 90,000 00 |
| Materials for permit work .. | 49,291 54 | 60,000 00 | 90,000 00 |
| Chain Bridge keeper .. | 660 00 | 660 00 | |
| Repairs to bridges .. | 5,984 91 | 10,000 00 | |
| Anacostia Bridge draw-keeper..... | | | |
| Ordinary care of Benning's, Anacostia, and Chain Bridges .. | | 2,000 00 | |
| Constructing, maintaining, lighting, and repairing of bridges .. | | | 13,500 00 |
| Current repairs to streets, avenues, and alleys .. | 24,999 83 | 25,000 00 | |
| Maintenance of streets, avenues, and alleys .. | | | 35,000 00 |
| Current repairs on county roads and suburban streets .. | 39,998 92 | 40,000 00 | |
| Maintenance of county roads and suburban streets .. | | | 50,000 00 |
| Sweeping, cleaning, and sprinkling streets and avenues .. | 45,000 00 | 58,000 00 | 70,000 00 |
| Cleaning alleys .. | 9,993 84 | | |
| Opening and extending suburban streets..... | | 30,000 00 | 60,000 00 |
| Lighting streets, &c .. | 98,672 49 | 100,000 00 | 100,000 00 |
| Electric light .. | | | 20,000 00 |
| Parking Commission, labor, &c .. | 17,848 47 | 18,000 00 | 25,000 00 |
| Continuation of survey of District of Columbia with reference to the extension of various avenues to the District line .. | 4,999 91 | 4,000 00 | 15,000 00 |
| For the protection and improvement of the harbor and river front, enforcement of laws and regulations, and construction of wharves and buildings .. | | | 10,000 00 |
| Total | 1,121,582 89 | 1,026,638 02 | 1,492,271 69 |

Expenditures for improvements of streets and avenues from July 1, 1878, to July 1, 1887.

| Years. | Georgetown. | | Northwest. | | Southwest. | | Southeast. | | Northeast. | |
|----------------|-------------|--------|--------------|--------|-------------|--------|-------------|--------|-------------|--------|
| | Amount. | P. ct. | Amount. | P. ct. | Amount. | P. ct. | Amount. | P. ct. | Amount. | P. ct. |
| 1878-79 | \$40,892 78 | .094 | \$311,427 21 | .718 | \$19,882 85 | .046 | \$47,706 74 | .11 | \$13,730 14 | .032 |
| 1879-80 | 11,931 82 | .071 | 96,213 15 | .569 | 15,185 90 | .09 | 28,115 93 | .160 | 17,637 69 | .104 |
| 1880-81 | 29,920 80 | .07 | 224,416 18 | .745 | 30,129 96 | .10 | 8,187 74 | .027 | 17,269 17 | .057 |
| 1881-82 | 14,159 07 | .05 | 168,478 97 | .60 | 46,618 20 | .165 | 35,073 35 | .125 | 16,906 24 | .06 |
| 1882-83 | 11,240 09 | .037 | 223,790 44 | .732 | 20,495 57 | .067 | 47,214 88 | .154 | 2,987 44 | .01 |
| 1883-84 | 18,165 29 | .053 | 175,632 66 | .508 | 64,319 16 | .174 | 20,543 53 | .077 | 65,149 01 | .188 |
| 1884-85 | 21,915 13 | .082 | 116,671 93 | .439 | 48,700 73 | .183 | 42,193 51 | .150 | 36,503 06 | .137 |
| 1885-86 | 29,051 92 | .111 | 116,142 67 | .444 | 27,599 29 | .105 | 60,401 41 | .231 | 28,472 91 | .109 |
| 1886-87* | 19,218 90 | .071 | 147,855 93 | .541 | 33,337 73 | .122 | 15,748 51 | .058 | 56,925 00 | .208 |
| Total | 187,534 90 | .07 | 1,579,629 14 | .60 | 302,269 39 | .115 | 311,188 60 | .118 | 255,580 66 | .097 |

Grand total, \$2,636,202.69.

* Estimated.

RECAPITULATION.

| Section. | Area. | | Population. | | Valuation. | | Average per cent. |
|-----------------|----------|-----------|-------------|-----------|-------------|-----------|-------------------|
| | Acres. | Per cent. | Number. | Per cent. | Amount. | Per cent. | |
| Georgetown..... | 590.95 | 9.02 | 14,322 | 7.6 | \$4,615,273 | 4.6 | 7.1 |
| Northwest | 2,720.79 | 41.54 | 107,430 | 57.0 | 78,525,687 | 78.0 | 58.8 |
| Southwest | 957.42 | 14.62 | 27,228 | 14.4 | 6,360,756 | 6.3 | 11.2 |
| Southeast | 1,247.49 | 19.04 | 21,561 | 11.4 | 6,191,195 | 6.1 | 12.2 |
| Northeast | 1,033.56 | 15.78 | 18,008 | 9.6 | 4,986,908 | 5.0 | 10.2 |

APPENDIX No. 4.

REPORT OF THE SURVEYOR.

SURVEYOR'S OFFICE, DISTRICT OF COLUMBIA,
Washington. September 30, 1886.

SIR: I have the honor to submit a report of the business of this office for the fiscal year ending June 30, 1886, as follows:

There were 1,076 orders received for surveys, 236 subdivisions recorded, and services as follows rendered the District of Columbia by special orders of the honorable Commissioners:

Surveys of lots, streets, and alleys, 3.

Recorded plat, "Extension of Eighteenth street west, from Boundary street to the west line of subdivision of Meridian Hill."

Investigation and report upon alleys, streets, and miscellaneous subjects referred to surveyor, 21.

Maps, plats, and tracings, 9.

Plats of current subdivisions. Washington, Georgetown, and the county, are regularly duplicated and areas computed for use and guidance of the assessor's and water office, the plat books of the engineer office kept up to date as subdivisions are recorded, and other services rendered to the respective offices of the District as called for.

I beg to call your attention to the condition of the older records of this office, some of which cannot be handled without additional injury.

I respectfully ask an appropriation of \$500 to restore, as far as practicable, mount on linen, and bind such records, maps, and plans as can be preserved in this way, and for purchase of additional files and fixtures for their accommodation.

Very respectfully, your obedient servant,

WM. FORSYTH,
Surveyor, District of Columbia.

Col. WILLIAM LUDLOW,
Corps of Engineers, U. S. Army, Engineer Commissioner, D. C.

APPENDIX No. 5.

REPORT OF THE PARKING COMMISSION.

SIR: The Parking Commission has the honor to present the following report of operations performed during the fiscal year ending June 30, 1886:

The total number of trees planted on the streets and avenues during the year was 2,794.

Trees removed from pavements and parkings and replanted on curb-line, 105; old and decaying trees removed, 337; number of tree holes prepared, 2,269.

The renewal of tree boxes having become a matter of considerable and constantly increasing outlay, and as these boxes are a detriment to all except young and newly-planted trees, and further, that the main reason for their constant maintenance being to guard and protect the stems from injury by horses, it was determined, by way of trial, to remove them from some of the older trees, with a view of ascertaining as

to the propriety of a more extended removal; experience proved that public opinion recognizes the value and the beauty of our street trees, and the indications were that no material injury would follow the general removal of the boxes where they were not required for support of young trees. The work of taking down boxes has therefore been diligently prosecuted, when time from more pressing operations permitted, to the great benefit of the trees, and adding measurably to the appearance of the city.

The boxes thus removed furnish material which is employed in preparing others for newly-planted trees, so that the expense of purchasing new boxes is obviated.

The Parking Commission have steadily kept in view the necessity for the removal of all the old white poplar trees throughout the city. Many, indeed most, of these trees are entirely out of place, being either too close to the building line, or encroaching too much on the sidewalks, and thus interfering with the growth of the trees planted in position on the curb line. Many of these old trees are in a state of decay, and, owing to the brittle character of their roots, are dangerous from their liability of being blown down. They are also the first to be attacked by caterpillars and other injurious insects, and for this reason alone they should be removed.

Caterpillars have been more numerous in this city during the past season than ever before, and much knowledge has been gained relative to the kinds of trees most subject to their depredations.

It is found that the white poplar, and the negundo or ash-leaved maple, are invariably the first to be attacked. No plants of the former have been set out since the year 1871, when the present Parking Commission was organized, and as soon as it became evident that the negundo tree was also a nucleus for the spread of caterpillars the further planting of this species was stopped.

It may be remarked that those who have studied this caterpillar plague during the summer are of the opinion that but few will be found during the coming season, as they were mostly all destroyed by parasites and rapidly disappeared.

An effective remedy for the destruction of caterpillars of all kinds that feed on leaves is to spray the leaves with water containing either of the arsenical poisons, Paris green or London purple; and it is believed that, with proper machinery and prompt application on the first appearance of the insects, they can be destroyed while in a young state, if sufficient funds can be appropriated for this purpose.

The large and yearly increasing number of trees in the city necessitates considerable outlay in keeping them in proper condition. Trimming depending branches which obstruct the streets and sidewalks, cutting back overgrowing limbs, mowing and cleaning parked spaces, and much other routine work of similar character form in the aggregate a heavy drain upon the appropriation for the purposes of the Parking Commission.

Respectfully submitted.

WM. R. SMITH.
JOHN SAUL.
WILLIAM SAUNDERS,
Secretary.

Col. W. LUDLOW,
Engineer Commissioner, District of Columbia.

APPENDIX No. 6.

REPORT OF THE INSPECTOR OF BUILDINGS.

ENGINEER DEPARTMENT,
OFFICE OF INSPECTOR OF BUILDINGS.

SIR: I have the honor to transmit herewith my annual report covering the transactions of this branch of your department during the fiscal year ending June 30, 1886, together with the recommendations and estimates for the fiscal year 1887.

Tabular statement of permits issued for buildings, &c., from July 1, 1885, to June 30, 1886.

| Description. | Number. | Estimated value. |
|----------------------------------|---------|------------------|
| Brick dwellings..... | 1,656 | \$3,838,955 |
| Brick stables, private..... | 56 | 68,125 |
| Brick stables, livery..... | 4 | 9,700 |
| Brick workshops..... | 15 | 5,910 |
| Brick stores..... | 36 | 162,150 |
| Brick office buildings..... | 11 | 148,600 |
| Brick churches..... | 4 | 54,500 |
| Brick school buildings..... | 5 | 63,800 |
| Brick warehouses..... | 15 | 60,300 |
| Brick repairs and additions..... | 597 | 462,907 |
| Frame dwellings..... | 356 | 286,890 |
| Frame stables..... | 14 | 1,639 |
| Frame sheds..... | 243 | 15,390 |
| Shops..... | 22 | 7,160 |
| Removals..... | 44 | 5,975 |
| Repairs and additions..... | 676 | 91,071 |
| Awnings..... | 93 | |
| Park railings..... | 696 | |
| Lineal feet of vault..... | 918 | |
| Total..... | 5,451 | 5,283,272 |

Total revenue for the year amounts to \$8,571, an excess of \$2,479 over the preceding year.

By reference to the above statement it will be seen that there have been erected 2,012 dwellings; buildings of all classes, 2,194; and 1,560 repairs and additions, being 779 dwellings, and of buildings of all classes 517; and 5 repairs in excess of the preceding year. The excess in value is \$1,276 038.

This is far in advance of any previous year, and the great amount of capital invested gives assurance of substantial progress.

There have been 76 dilapidated and dangerous buildings condemned and ordered to be taken down. There have also been condemned, as insufficient for the purposes of new adjoining buildings, 18 party walls.

Eighty-eight notices have been served requiring defective old brick buildings to be repaired and made safe, and 20 notices requiring defects in new structures to be properly remedied.

There have been 60 notices served for violation of the regulations in making repairs on wooden structures.

There have been removed and relocated, under permits from this office, 32 wooden buildings. There have been filed 380 complaints, all of which were investigated, and where in conflict of law notices to remove the cause have been issued and enforced. Ten cases for violations of the building regulations have been presented to the police court by this office, independent of those taken in by the police.

From the above statement it is clear that with the increased number of new buildings it is utterly impossible with but one assistant on general city work to give that class of work sufficient attention or inspection. I must therefore urge that additional assistance be given the office, as at least half of the time of the present and only assistant is taken up in making examinations in answer to complaints. I have but two or three hours per day to devote to outside work, which time is principally occupied on District buildings.

The order requiring me to notify all parties having gates in parking fences opening outward to be reversed or removed—and there are several thousand of them—as also the notices requiring open areas to be protected, have been, for want of assistance, only partially attended to. As both these cases are matters of importance, for the reason that an accident by falling into an open area or injury from contact with an open gate would result in a suit for damages, I would suggest that if in your judgment you should think it proper to instruct the police to assist me in this matter I will give the necessary instructions, and, upon their report, furnish them with the proper notices in each case.

DISTRICT BUILDINGS.

The erection of a station-house in the seventh precinct (old number) places all of the eight precincts in buildings owned by the District, and, with the exception of the third, fifth, and seventh (new numbers), are in substantial and well-adapted buildings. The work now in progress in the seventh station cell building will place the cells in a safe and sanitary condition.

The main buildings of third and fifth stations should be enlarged by an addition of 10 feet in depth, and new cell buildings similar to the recently erected stations should be placed at rear of and connected with the main buildings of each, as at present they are separated from the main buildings and in poorly adapted out-buildings. To reconstruct them as suggested will require about \$6,000 each, and I would suggest that an appropriation be made for enlarging one of them this year, and one the succeeding year. The seventh, or Georgetown house, situated as it is on the canal wall, cannot be improved as suggested for the third and fifth, and must remain as now until the business of this locality requires increased quarters; in which event, a new site should be obtained and a properly adapted house erected.

There will be required for repairs to the various stations, including police court, for the next fiscal year the sum of \$2,000.

There has been expended for repairs to stations during the fiscal year the sum of \$1,472.52.

| | |
|--------------------|------------|
| Appropriation..... | \$1,500 00 |
| Repairs, &c..... | 1,472 52 |
| Balance..... | 27 48 |

The appropriation for purchase of site and erection of seventh precinct station-house has been expended as follows :

| | |
|---|------------|
| Cost of site..... | \$3,400 00 |
| Contract No. 665..... | 11,082 35 |
| Extra furnace..... | 127 00 |
| Extra platform and steps..... | 15 00 |
| Extra depths of foundations, 56,001 bricks, at \$17..... | 952 01 |
| 521½ cubic yards excavating and refilling, at 75 cents..... | 391 08 |
| 4 cubic yards concrete foundations, at \$4.50..... | 18 00 |
| 8 cast-iron cell water-closets..... | 320 00 |

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| | |
|---|---------|
| Printing specifications..... | \$19 18 |
| 2 cubic yards sand..... | 2 10 |
| Paving..... | 11 00 |
| Virginia Brick Company, 1,200 bricks..... | 10 68 |
| Removing side of frame house to place wall of building..... | 10 00 |
| Balance..... | 38 78 |

Total appropriation 16,397 18

Engine houses.

These houses, except No. 4, are in a fair state of repair. These buildings, on account of the nature of their occupancy, are subjected to great wear, and for comfort and efficiency every portion of them needs to be kept in a very complete and comfortable condition. A great portion of No. 4 needs to be renewed and reconstructed.

I would, therefore, recommend that the appropriation for repairs for the next year be not less than \$2,500.

There has been expended for repairs to engine-houses during the fiscal year the sum of \$994.48.

| | |
|---------------------|------------|
| Appropriation | \$1,000 00 |
| Repairs, &c..... | 994 48 |
| Balance | 5 52 |

Market-houses.

On account of the appropriation from which repairs must be made having been so far consumed during the present fiscal year for various purposes, I have not been able to make the necessary repairs. I would suggest that the amount necessary for these repairs be made a separate item, and an appropriation of not less than \$1,000 be made.

There has been expended for repairs on these buildings during the year the sum of \$822.77.

New school buildings.

There have been erected during the year, upon plans and specifications made in this office, one eight-room school building on P street between Thirty-second and Thirty-third streets northwest, and two three-room school buildings and stair halls adjacent to the Stevens school building on Twenty-first street, between K and L streets northwest.

The amount appropriated for new school buildings, sites, and furniture was \$61,130.13, expended as follows, viz:

| | |
|---|-------------|
| ADDISON BUILDING, P STREET, BETWEEN THIRTY-SECOND AND THIRTY-THIRD STREETS NORTHWEST. | |
| Contract No. 618 | \$22,000 00 |
| Extra depths foundations..... | |
| 539 $\frac{1}{2}$ cubic yards excavating, at \$1 | 539 39 |
| 195 $\frac{1}{2}$ cubic yards concrete, at \$4.50 | 879 33 |
| 47,859 bricks, at \$17 | 813 60 |
| Four 4-foot 6-inch wrought-iron beams, at 4 $\frac{1}{2}$ cents..... | 10 80 |
| Four cast-iron plates, at 3 $\frac{1}{2}$ cents..... | 3 64 |
| New water-closets | 243 61 |
| Two granite stone sills | 40 00 |
| Printing specifications | 24 05 |
| Cement..... | 94 00 |
| Broken stone | 117 00 |
| Washington Brick Machine Company..... | 200 00 |
| Lumber | 1 90 |

| | |
|--------------------------------|----------|
| Mounting maps | \$4 80 |
| Contract for heating..... | 1,650 00 |
| Pay-roll, removing sewer | 771 02 |
| Twenty barrels cement | 22 00 |
| Superintendence, &c..... | 336 30 |
| Reserved for furniture | 1,573 90 |

| | |
|--|-----------|
| | 29,325 34 |
| Deduct for 27 feet fencing, not put up | 12 15 |
| | 29,313 19 |

STEVENS.

| | |
|---|-----------|
| Contract No. 626 | 20,400 00 |
| Extra depths of foundations: | |
| 56,754 bricks, at \$17 | 964 81 |
| 319 cubic yards and 4 feet excavating, at \$1 | 319 14 |
| 6½ yards concreting, at \$4.50 | 29 25 |
| Six large iron door stops, at \$2 | 12 00 |
| Printing specifications | 24 17 |
| Painting blackboards | 13 50 |
| Superintendence, &c..... | 336 30 |
| Reserved for furniture | 1,122 67 |
| | 23,221 84 |

SUMMARY.

| | |
|---|-----------|
| Addison building | 29,313 19 |
| Stevens building | 23,221 84 |
| Cost of site, northeast section | 3,382 50 |
| Cost of site, southwest section | 5,000 00 |
| Deficiency, heating school buildings, I street between Sixth and Seventh streets northeast, and Market and Frederick streets northwest..... | 212 51 |
| Balance | 09 |
| Total amount of appropriation | 61,130 13 |

REPAIRS TO PUBLIC SCHOOLS.

The appropriation for the repairs to public schools has been expended in the several divisions as follows :

| | |
|-------------------------------|------------|
| First division | \$2,886 88 |
| Second division | 3,630 32 |
| Third division | 1,663 29 |
| Fourth division | 1,737 33 |
| Fifth division | 1,426 37 |
| Sixth division | 3,087 33 |
| Seventh division | 3,460 94 |
| Eighth division | 1,071 49 |
| High school | 1,034 22 |
| Balance | 1 83 |
| Amount of appropriation | 20,000 00 |

In submitting the estimates for repairs on the various school buildings I would state that the amount asked for for school repairs was reduced in making the appropriation \$5,000, and, as stated when submitting the last estimate, that the amount asked for was an absolute necessity, the reduction has caused the omission of important repairs and improvements. The necessity for repairs to make the buildings habitable so far consumed the fund that a very small portion of it could be used for improving the grounds.

The appropriations for "Repairs and improving grounds" the last and each of the five previous years have been so far reduced by Congress that it has caused us to omit, with a few exceptions, the inclosure

and improvements. The result is that nearly all the new school buildings have the appearance of being owned by parties too poor to improve the surroundings.

The appropriation for the construction of an additional building for the "National Association for Destitute Colored Women and Children" has been expended as follows:

| | |
|--|-------------|
| Contract No. 630 | \$17,478 00 |
| Extra depths foundations: | |
| 69 cubic yards excavating, at \$1 | 69 00 |
| 14,400 bricks, at \$17 | 244 80 |
| Covering well with flagging and extending supply to pump | 54 00 |
| One 9-inch and two 5-inch beams | 19 00 |
| Platform over cistern and iron pitcher pump | 23 00 |
| Six registers in ventilating stacks | 16 50 |
| Connecting rain conductor from roof and porch | 44 15 |
| Drawing materials | 4 17 |
| Printing specifications | 22 43 |
| Putting in sewer to drain cellar | 24 00 |
| Balance | 95 |
| Amount of appropriation | 18,000 00 |

NEW WORKHOUSE.

The appropriation of \$20,000 for the "Conversion of magazine No. 1 into a workhouse for females" has been expended as follows:

| | |
|--|-------------|
| Contract No. 617 | \$16,800 00 |
| Extra—extending boiler house 5 feet: | |
| 11 cubic yards excavating, at 30 cents | 3 30 |
| 1,235 bricks laid in cement, at \$17 | 20 99 |
| 6½ yards concrete, at 50 cents | 3 33 |
| 67 feet 6 inches rafters, sheathing and tin, at 16 cents | 10 80 |
| 5 feet eaves gutter, at 18 cents | 90 |
| 8 cast-iron chamber-boxes with ventilating pipes, at \$11.20 | 89 60 |
| Boxing pipe-work and materials | 10 62 |
| Open gate valve, 2-inch | 7 50 |
| Cutting pipe and setting same | 7 50 |
| 18 feet 6 inches gas pipe, at 15 cents | 2 77 |
| Steps to boiler-room | 2 90 |
| Making center and finishing archway between rooms | 6 50 |
| Superintendence | 632 00 |
| Printing specifications | 15 40 |
| Drawing materials | 12 45 |
| 450 feet 8-inch terra-cotta pipe | 52 85 |
| 2,000 arch bricks | 14 80 |
| 2 man-hole frames and covers | 12 49 |
| 6 barrels cement | 6 60 |
| Gas fixtures | 42 00 |
| 48 iron bunks, at \$19.35 | 928 80 |
| Washington Gas-Light Company | 125 00 |
| Bronzing coils and steam fittings | 116 04 |
| New spouting | 4 42 |
| New boiler | 287 50 |
| Constructing coal vault | 356 50 |
| Building shed over door and paving around building | 188 25 |
| Inserting doorway, lining coal vault, &c | 96 50 |
| Deduct 33½ yards pavement not laid, at 62 cents | 19,858 34 |
| | 20 67 |
| Balance appropriation | 19,837 67 |
| | 162 33 |
| Amount appropriation | 20,000 00 |

I must again urge the necessity for better quarters for the District offices.

As the increase of business each year is further crowding this dilapidated structure, and considering the risk in case of fire, the inconvenience to the occupants and the public in the transaction of business, it is certainly an absolute necessity that some arrangement be made for a more commodious and a safer building.

As in the event that an appropriation be made for a District building it will require at least two years for its completion; and in view of the fact that several of the departments are now in rented quarters, inconvenient for them, in communicating with the Commissioners, to concentrate them, shows how important it is that a suitable building be erected as speedily as practicable.

The locality and character of the building are questions for your consideration; and in this connection I would suggest that it be located as conveniently as practicable to the City Hall (or court-house), and taking into consideration that this will no doubt, from present prospects, become a great city, the building should be of a character in keeping with it, and so placed that when necessary for increased requirements it can be extended to meet the demands.

In conclusion permit me, sir, to acknowledge the uniform courtesy and confidence which this branch of your department has received from you and your predecessor in all its transactions.

Very respectfully,

THOS. B. ENTWISTLE,
Inspector of Buildings.

Col. WILLIAM LUDLOW,
Corps of Engineers, U. S. A., and Commissioner D. C.

APPENDIX No. 7.

REPORT OF THE SUPERINTENDENT OF LAMPS.

WASHINGTON, D. C., *September 25, 1886.*

SIR: I have the honor to submit my annual report of the operations of this office and expenditures incurred from June 30, 1885, to June 30, 1886, showing a total expenditure of \$103,292.16. Of this amount \$2,068.02 was refunded by the railroad companies for lamps used along their tracks through the city, thus leaving a net expenditure of \$101,224.14.

During the past year the street lamps have been lighted twenty-six hundred hours, as required by law. I would respectfully recommend that the number of hours be increased to three thousand, as numerous years have demonstrated that the number now allowed is entirely inadequate. During the past year 131 lamps were erected in various parts of the city, a portion of these having been erected on the suburbs by citizens living in those vicinities. A large portion of the city still remains unlighted and demands for lamps are constantly increasing. Provision should be made for at least 350 lamps for the unlighted streets and alleys. I would respectfully recommend that at least 200 lamps be erected in alleys and on the entrance to alleys, so erected as to afford light for the alley and for the street. In this way the street lamps will become a great auxiliary to the police department in the detection of crime. I would respectfully recommend that the superintendent of lamps and gas be directed to make an inspection of and take the statement of all gas-meters in the school-houses, station-houses,

and the numerous buildings occupied by the District government in various parts of the city. I would respectfully state that previous to 1880 that was one of the duties of the superintendent of lamps and gas. At the present time if a leak should occur around any of the many meters in buildings occupied by the District government, it would possibly be a month or two before it would be detected. To avoid this, I would respectfully recommend that a monthly inspection be made.

Tabular statement of expenditures for lamps and gas, year ending June 30, 1886.

| | |
|--|-------------|
| Gas for street lamps..... | \$99,376 97 |
| Cost of erecting street lamps..... | 1,180 11 |
| Cost of re-erecting street lamps..... | 44 50 |
| One hundred and forty-four lamp posts..... | 921 60 |
| One hundred and ninety-five lamps..... | 468 00 |
| Gas for District offices..... | 756 63 |
| Gas for market-houses..... | 544 35 |
| Total..... | 103,292 16 |
| Number of lamps June 30, 1885..... | 4,491 |
| Number of lamps erected 1885-'86..... | 131 |
| Total number of lamps..... | 4,622 |

Very respectfully,

H. O. BAILEY,
Acting Superintendent of Lamps and Gas.

Colonel LUDLOW,
Engineer Commissioner.

APPENDIX No. 8.

REPORT OF THE INSPECTOR OF GAS AND METERS.

OFFICE OF THE UNITED STATES
INSPECTOR OF GAS AND METERS,
Washington, D. C., September 6, 1886.

SIR: I have the honor herewith to submit the annual report of this office, showing its operations for the fiscal year ending June 30, 1886.

At its commencement will be found condensed tables giving the illuminating power and purity of the gas furnished by the gas companies during the year.

Full monthly statements will be found in tables A and B. In the remaining tables, lettered C, D, E, and F, the monthly inspection of meters and the pressure of the gas are fully stated.

Very respectfully, your obedient servant,

S. CALVERT FORD,
Inspector of Gas and Meters.

Col. WILLIAM LUDLOW, U. S. A.,
Engineer Commissioner, District of Columbia.

ILLUMINATING POWER AND PURITY.

The illuminating power and purity of the gas supplied by the Washington Gas-Light Company from June 24, 1885, to June 23, 1886, was as follows:

| | | |
|---|-----------|-------|
| Average illuminating power during the year | candles.. | 17.04 |
| Highest illuminating power during the year | do..... | 20.38 |
| Lowest illuminating power during the year | do..... | 15.02 |
| Average quantity of ammonia in 100 cubic feet during the year | grains.. | 3.38 |
| Highest quantity of ammonia in 100 cubic feet during the year | do..... | 14.16 |
| Lowest quantity of ammonia in 100 cubic feet during the year | do..... | .11 |
| Average quantity of sulphur in 100 cubic feet during the year | do..... | 10.71 |
| Highest quantity of sulphur in 100 cubic feet during the year | do..... | 19.52 |
| Lowest quantity of sulphur in 100 cubic feet during the year | do..... | 2.28 |

On fifteen occasions the illuminating power of the gas supplied by this company was less than 16 candles.

On sixty occasions the quantity of ammonia found in the gas exceeded the 5 grains allowed.

The average pressure of the gas supplied by the Washington Gas-Light Company, as recorded in this office, during the hours that street lamps were lighted, from July 1, 1885, to June 30, 1886, was 1.06 inches. Maximum pressure, 1.94 inches; minimum pressure, .30 inch.

The illuminating power and purity of the gas supplied by the Georgetown Gas-Light Company from June 24, 1885, to June 23, 1886, was as follows:

| | | |
|---|-----------|-------|
| Average illuminating power during the year | candles.. | 16.90 |
| Highest illuminating power during the year | do..... | 19.14 |
| Lowest illuminating power during the year | do..... | 12.16 |
| Average quantity of ammonia in 100 cubic feet during the year | grains.. | 2.03 |
| Highest quantity of ammonia in 100 cubic feet during the year | do..... | 8.48 |
| Lowest quantity of ammonia in 100 cubic feet during the year | do..... | .05 |
| Average quantity of sulphur in 100 cubic feet during the year | do..... | 14.25 |
| Highest quantity of sulphur in 100 cubic feet during the year | do..... | 25.27 |
| Lowest quantity of sulphur in 100 cubic feet during the year | do..... | 3.01 |

On twenty-two occasions the illuminating power of the gas supplied by this company was less than 16 candles.

On six occasions the quantity of ammonia found in the gas exceeded the 5 grains allowed.

On ten occasions the quantity of sulphur found exceeded the 20 grains allowed.

The average pressure of the gas supplied by the Georgetown Gas-Light Company, as recorded in inspector's office on High street, during the hours that street lamps were lighted, from July 1, 1885, to June 30, 1886, was 1.45 inches. Maximum pressure, 2.79 inches; minimum pressure, .73 inch.

INSPECTION OF METERS.

Owing to the fire that occurred in Post building on July 16, 1885, whereby the instruments belonging to this laboratory were more or less damaged and had to be returned to the manufacturers for repairs, the inspection of meters could not be resumed until the latter part of October. Nine hundred and thirty-five meters have been inspected and proved during the remainder of year ending June 30, 1886, for the Washington and Georgetown Gas-Light Companies, and for consumers of gas, including two meters proved and sealed for the Alexandria Gas-Light Company, and one for the Annapolis Gas-Light Company.

The results of inspection were as follows: Eighty-one registered fast, average error, 3.54 per cent.; 73 registered slow, average error, 8.40 per

cent.; 754 registered within the limits allowed by law, namely, 2 per cent. either way, and 24 did not register the gas flowing through them.

One hundred and seventy of the above-described meters were inspected and proved on complaint; 117 were complained of by consumers of gas; 56 registered fast against the consumer, average error, 4.57 per cent.; 19 registered slow, average error, 5.60 per cent.; and 33 registered within the limits allowed.

Fifty-three were complained of by the gas companies; 3 registered fast, average error, 3.16 per cent.; 24 registered slow, average error, 12.74 per cent.; 4 registered within the limits allowed, and 22 did not register.

The sum of \$467.50 was received as fees for meter inspections and the same was paid into the United States Treasury to the credit of the United States and District of Columbia in equal parts.

I respectfully renew the recommendation made in last annual report, that an assistant inspector of gas and meters should be appointed, who shall assist in the duties specified under the direction of the inspector. The work in the office is more than one officer can perform, and, in consequence of not having an assistant, during last winter the demand for sealed meters by the Washington Gas-Light Company could not be complied with, and the company were compelled to place meters in service that had not been inspected, proved, and sealed in this office as required by law.

It is necessary that some provision should be made so that the gas companies can obtain sealed meters as they need them, and the practice of placing new and repaired meters in service that have not been approved by this office as correct measurers of gas be discontinued.

I again renew the recommendation made in previous reports that the act of Congress approved June 23, 1874, regulating gas works should be amended so as to require, when for any purpose whatever the heads of meters that have been inspected, proved, and sealed are removed by the gas companies, meters of this description should be classed as repaired meters and brought to this office for reinspection before again being placed in service.

WASHINGTON, D. C., September 6, 1886.

A.—Report of the illuminating power and purity of the gas supplied by the Washington Gas-Light Company from June 24, 1885, to June 23, 1886.

| Months of the year. | Number of observations.* | Illuminating power in sperm candles. | | | Quantity of ammonia in 100 cubic feet. | | | Quantity of sulphur in 100 cubic feet. | | |
|---------------------|--------------------------|--------------------------------------|----------|---------|--|---------------------------|--------------------------|--|---------------------------|--------------------------|
| | | Mean. | Highest. | Lowest. | Mean number of grains. | Highest number of grains. | Lowest number of grains. | Mean number of grains. | Highest number of grains. | Lowest number of grains. |
| July | 16 | 16.82 | 18.06 | 15.82 | 2.33 | 3.40 | .96 | 6.42 | 11.18 | 2.28 |
| August | 10 | 16.89 | 18.01 | 15.96 | 1.05 | 3.11 | .45 | 11.46 | 14.61 | 9.13 |
| September | 24 | 16.72 | 17.74 | 16.07 | 1.56 | 3.91 | .22 | 13.72 | 19.52 | 9.59 |
| October | 24 | 16.58 | 17.50 | 15.58 | .26 | .56 | .11 | 12.03 | 16.44 | 8.22 |
| November | 19 | 16.81 | 18.05 | 15.49 | 5.38 | 14.16 | .25 | 12.72 | 19.40 | 9.36 |
| December | 25 | 16.68 | 18.21 | 15.07 | 2.40 | 6.00 | 1.13 | 9.41 | 11.64 | 4.93 |
| January | 25 | 17.91 | 20.38 | 16.58 | 4.78 | 8.16 | 2.08 | 9.84 | 12.33 | 8.22 |
| February | 25 | 17.30 | 18.49 | 16.51 | 4.35 | 9.80 | 1.44 | 11.71 | 16.44 | 9.24 |
| March | 24 | 17.05 | 18.33 | 15.62 | 5.01 | 7.26 | 2.26 | 11.77 | 14.38 | 9.24 |
| April | 27 | 16.88 | 18.59 | 15.66 | 4.28 | 7.01 | 1.24 | 11.36 | 15.29 | 8.56 |
| May | 25 | 17.52 | 18.29 | 16.61 | 4.94 | 7.52 | 2.16 | 8.89 | 11.30 | 2.91 |
| June | 26 | 17.43 | 18.17 | 15.32 | 4.35 | 6.46 | 2.63 | 9.27 | 11.64 | 7.31 |
| Total | 270 | 204.59 | | | 40.58 | | | 128.60 | | |

AVERAGE FOR THE YEAR.

Illuminating power in sperm candles :

| | |
|---------------------------------|-------|
| Mean of 270 observations* | 17.04 |
| Highest (January 9) | 20.38 |
| Lowest (November 30) | 15.07 |

Quantity of ammonia in 100 cubic feet :

| | | |
|-----------------------------|----------|-------|
| Mean | grains.. | 3.38 |
| Highest (November 14) | do | 14.16 |
| Lowest (October 15) | do | .11 |

Quantity of sulphur in 100 cubic feet :

| | | |
|------------------------------|----------|-------|
| Mean | grains.. | 10.71 |
| Highest (September 16) | do | 19.52 |
| Lowest (July 11) | do | 2.22 |

REMARKS.—Defaults in candle power and purity were as follows:

On fifteen occasions the illuminating power was less than 16 candles.

On sixty occasions the quantity of ammonia found exceeded the 5 grains allowed.

B.—Report of the illuminating power and purity of the gas supplied by the Georgetown Gas-Light Company from June 24, 1885, to June 23, 1886.

| Months of the year. | Number of observations.* | Illuminating power in sperm candles. | | | Quantity of ammonia in 100 cubic feet. | | | Quantity of sulphur in 100 cubic feet. | | |
|---------------------|--------------------------|--------------------------------------|----------|---------|--|---------------------------|--------------------------|--|---------------------------|--------------------------|
| | | Mean. | Highest. | Lowest. | Mean number of grains. | Highest number of grains. | Lowest number of grains. | Mean number of grains. | Highest number of grains. | Lowest number of grains. |
| July | 20 | 17.11 | 19.14 | 15.31 | 3.09 | 4.55 | 2.27 | 14.49 | 19.86 | 7.77 |
| August | 25 | 17.08 | 18.94 | 15.93 | 3.00 | 3.40 | 2.72 | 19.12 | 22.39 | 15.07 |
| September | 23 | 16.82 | 18.11 | 15.41 | 2.33 | 3.23 | 1.37 | 14.12 | 21.92 | 7.99 |
| October | 24 | 16.95 | 18.18 | 15.95 | 1.45 | 2.01 | 1.10 | 9.85 | 12.67 | 7.47 |
| November | 19 | 16.35 | 18.43 | 12.16 | 1.71 | 2.55 | 1.17 | 11.34 | 15.65 | 7.76 |
| December | 23 | 16.56 | 17.38 | 15.59 | .55 | 1.15 | .28 | 15.03 | 25.27 | 4.52 |
| January | 25 | 17.20 | 18.79 | 16.26 | .11 | .22 | .05 | 10.25 | 17.20 | 3.01 |
| February | 24 | 16.91 | 18.97 | 15.18 | 1.20 | 3.27 | .10 | 16.06 | 22.54 | 11.55 |
| March | 23 | 17.31 | 18.48 | 16.21 | 1.74 | 2.05 | 1.57 | 16.55 | 20.50 | 13.88 |
| April | 26 | 16.86 | 18.03 | 16.12 | 1.64 | 2.04 | 1.23 | 15.52 | 19.17 | 11.32 |
| May | 23 | 17.05 | 17.60 | 15.65 | 2.60 | 3.17 | 2.17 | 14.03 | 16.75 | 9.42 |
| June | 23 | 16.68 | 18.69 | 14.80 | 5.04 | 8.48 | 2.03 | 14.70 | 18.95 | 12.46 |
| Total | 278 | 202.88 | ..... | ..... | 24.46 | ..... | ..... | 171.06 | ..... | ..... |

AVERAGE FOR THE YEAR.

Illuminating power in sperm candles :

| | |
|---------------------------------|-------|
| Mean of 278 observations* | 16.90 |
| Highest (July 17, 1885) | 19.14 |
| Lowest (November 4, 1885) | 12.16 |

Quantity of ammonia in 100 cubic feet :

| | | |
|--|----------|------|
| Mean | grains.. | 2.03 |
| Highest (June 11, 1886) | do | 8.48 |
| Lowest (January 11 and 15, 1886) | do | .05 |

Quantity of sulphur in 100 cubic feet :

| | | |
|-----------------------------------|----------|-------|
| Mean | grains.. | 14.25 |
| Highest (December 14, 1885) | do | 25.27 |
| Lowest (December 30, 1885) | do | 3.01 |

REMARKS.—Defaults in candle power and purity were as follows: On 22 occasions the illuminating power was less than 16 candles; on 6 occasions the quantity of ammonia found in the gas exceeded the 5 grains allowed; on 10 occasions the quantity of sulphur found exceeded the 20 grains allowed.

* Each observation consists of 20 readings on the Bunsen photometer, at intervals of 1 minute.

170 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

C.—Report of meters inspected and proved for the Washington Gas-Light Company and for consumers of gas in Washington, from June 30, 1885, to June 30, 1886.

| | July. | August. | September. | October. | November. | December. | January. | February. | March. | April. | May. | June. | Total. |
|--|-------|---------|------------|----------|-----------|-----------|----------|-----------|--------|--------|-------|-------|--------|
| Whole number of meters tested..... | 39 | | | 37 | 51 | 52 | 42 | 124 | 135 | 124 | 70 | 139 | 813 |
| New meters for company..... | 13 | | | 37 | 44 | 40 | 3 | 73 | 103 | 81 | 47 | 130 | 571 |
| Number fast..... | | | | | 3 | 2 | | 2 | 5 | 1 | 3 | 1 | 17 |
| Per cent. fast..... | | | | | 3.42 | 2.37 | | 4.04 | 2.92 | 2.66 | 3.34 | 2.08 | *2.97 |
| Number slow..... | | | | 6 | | | | 4 | 2 | 4 | | | 6 |
| Per cent. slow..... | | | | 3.08 | | | | 12.20 | 3.06 | 6.81 | | 3.16 | *5.65 |
| Number correct..... | 13 | | | 31 | 41 | 38 | 3 | 66 | 96 | 76 | 44 | 122 | 530 |
| Repaired meters for company..... | | | | | | 2 | 5 | 29 | 24 | 32 | 12 | 4 | 108 |
| Number fast..... | | | | | | | | | | | 1 | | 1 |
| Per cent. fast..... | | | | | | | | | | | 3.81 | | *3.81 |
| Number slow..... | | | | | | | | | | | | 2 | 3 |
| Per cent. slow..... | | | | | | | | | | 10.12 | 3.95 | | *7.03 |
| Number correct..... | | | | | | 2 | 5 | 29 | 24 | 31 | 9 | 4 | 104 |
| Consumers' meters on complaint of consumers..... | 3 | | | | 7 | 4 | 23 | 21 | 7 | 11 | 11 | 5 | 92 |
| Number fast..... | 1 | | | | 3 | 2 | 15 | 8 | 4 | 4 | 4 | 1 | 42 |
| Per cent. fast..... | 6.36 | | | | 4.60 | 2.66 | 4.13 | 5.81 | 4.10 | 4.86 | 10.49 | 2.45 | *5.05 |
| Number slow..... | | | | | 3 | 2 | 3 | 4 | 1 | 3 | | 1 | 17 |
| Per cent. slow..... | | | | | 3.70 | 12.05 | 8.47 | 2.85 | 3.93 | 4.41 | | 2.25 | *5.38 |
| Number correct..... | 2 | | | | 1 | | 5 | 9 | 2 | 4 | 7 | 3 | 33 |
| Consumers' meters on complaint of company..... | 23 | | | | | 6 | 11 | 1 | 1 | | | | 42 |
| Number fast..... | | | | | | | 1 | | 1 | | | | 2 |
| Per cent. fast..... | | | | | | | 4.58 | | 2.77 | | | | *3.67 |
| Number slow..... | 9 | | | | | 2 | 5 | | | | | | 16 |
| Per cent. slow..... | 16.99 | | | | | 17.21 | 18.51 | | | | | | *17.57 |
| Number correct..... | | | | | | 1 | | 1 | | | | | 2 |
| Consumers' meters on complaint of company that did not register..... | 14 | | | | | 3 | 5 | | | | | | 22 |

*Average per cent.

REMARKS.—During the fiscal year ending June 30, 1886, this office inspected and proved for the Washington Gas-Light Company and for consumers of gas in Washington 813 meters. Of this number 62 registered fast, average error 3.87 per cent.; 58 registered slow, average error 8.90 per cent.; 669 flowing through them. Two meters were proved and sealed for the Alexandria Gas Company and one for the Annapolis Gas-Light Company.

D.—Report of meters inspected and proved for the Georgetown Gas-Light Company and for consumers of gas in Georgetown, from June 30, 1885, to June 30, 1886.

| | July. | August. | September. | October. | November. | December. | January. | February. | March. | April. | May. | June. | Total. |
|--|-------|---------|------------|----------|-----------|-----------|----------|-----------|--------|--------|------|-------|--------|
| Whole number of meters tested .. | 13 | | | 4 | 22 | 26 | 8 | 12 | 2 | 6 | 24 | 2 | 119 |
| New meters for company .. | | | | 1 | 12 | | | 6 | | | | | 19 |
| Number correct .. | | | | 1 | 12 | | | 6 | | | | | 19 |
| Repaired meters for company .. | 13 | | | 3 | | 19 | 3 | | 1 | 3 | 22 | | 64 |
| Number fast .. | | | | | | 3 | | | | 1 | | | 4 |
| Per cent. fast .. | | | | | | 3.15 | | | | 2.66 | | | *2.90 |
| Number slow .. | 2 | | | | | | 2 | | 1 | | | | 5 |
| Per cent. slow .. | 3.18 | | | | | 6.76 | | 20.00 | | | | | *9.98 |
| Number correct .. | 11 | | | 3 | | 16 | 1 | | | 2 | 22 | | 55 |
| Consumers' meters on complaint of consumers .. | | | | | 2 | 7 | 5 | 6 | 1 | 3 | 1 | | 25 |
| Number fast .. | | | | | 2 | 5 | 3 | 2 | 1 | 1 | | | 14 |
| Per cent. fast .. | | | | | 2.70 | 4.69 | 4.24 | 3.66 | 4.50 | 4.83 | | | *4.10 |
| Number slow .. | | | | | 1 | 1 | 1 | | | | | | 2 |
| Per cent. slow .. | | | | | | 8.33 | 3.31 | | | | | | *5.82 |
| Number correct .. | | | | | | 2 | 1 | 3 | | 2 | 1 | | 9 |
| Consumers' meters on complaint of company .. | | | | | | | | | | | 1 | 2 | 11 |
| Number fast .. | | | | | 1 | | | | | | | | 1 |
| Per cent. fast .. | | | | | 2.66 | | | | | | | | *2.66 |
| Number slow .. | | | | | 6 | | | | | | 1 | 1 | 8 |
| Per cent. slow .. | | | | | 8.65 | | | | | | 3.62 | 11.50 | *7.92 |
| Number correct .. | | | | | 1 | | | | | | | 1 | 2 |
| Consumers' meters on complaint of company that did not register .. | | | | | | | | | | | | | |

* Average per cent.

REMARKS.—During the fiscal year ending June 30, 1886, this office inspected and proved for the Georgetown Gas-Light Company and for consumers in Georgetown 119 meters. Of this number 19 registered fast, average error 3.22 per cent., 15 registered slow, average error 7.90 per cent., and 85 registered within the limits allowed by law, namely, 2 per cent. either way.

E.—Report showing the pressure of the gas supplied by the Washington Gas-Light Company, as registered in this office, from July 1, 1885, to June 30, 1886.

| Month. | Mean pressure. | Maximum pressure. | Minimum pressure. |
|--------------|----------------|-------------------|-------------------|
| | <i>Inches.</i> | <i>Inches.</i> | <i>Inch.</i> |
| July .. | 1.05 | 1.59 | .54 |
| September .. | .97 | 1.37 | .74 |
| October .. | 1.01 | 1.50 | .56 |
| November .. | 1.07 | 1.68 | .64 |
| December .. | 1.13 | 1.71 | .82 |
| January .. | 1.08 | 1.94 | .80 |
| February .. | 1.05 | 1.79 | .80 |
| March .. | 1.03 | 1.48 | .73 |
| April .. | 1.05 | 1.65 | .70 |
| May .. | 1.15 | 1.81 | .82 |
| June .. | 1.13 | 1.94 | .84 |

Average: Mean pressure, 1.06 inches; maximum pressure, 1.94 inches; minimum pressure, .30 inch.

REMARKS.—The above record represents the pressure of the gas during the hours that street lamps were lighted.

172 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

F.—*Report showing the pressure of the gas supplied by the Georgetown Gas-Light, Company, as registered in office on High street, from July 1, 1885, to June 30, 1886.*

| Month. | Mean pressure. | Maximum pressure. | Minimum pressure. |
|----------------|----------------|-------------------|-------------------|
| | <i>Inches.</i> | <i>Inches.</i> | <i>Inches.</i> |
| July..... | 1.55 | 2.03 | 1.18 |
| August..... | 1.52 | 2.09 | 1.03 |
| September..... | 1.44 | 2.11 | 1.06 |
| October..... | 1.36 | 1.99 | .93 |
| November..... | 1.35 | 2.01 | .99 |
| December..... | 1.45 | 2.14 | .83 |
| January..... | 1.55 | 2.79 | .91 |
| February..... | 1.51 | 2.62 | .89 |
| March..... | 1.50 | 2.09 | .92 |
| April..... | 1.49 | 2.06 | .88 |
| May..... | 1.39 | 1.92 | .73 |
| June..... | 1.39 | 2.05 | 1.03 |

Average: Mean pressure, 1.45 inches; maximum pressure, 2.79 inches; minimum pressure, .73 inches.
Remarks.—The above record represents the pressure of the gas during the hours that street lamps were lighted.

APPENDIX No. 9.

REPORT OF THE INSPECTOR OF ASPHALT AND CEMENT.

OFFICE AND LABORATORY OF THE CHEMIST,
ENGINEER DEPARTMENT, DISTRICT OF COLUMBIA,
Washington, November 17, 1886.

COLONEL: I have the honor to submit the following report of the operations of this office, and of analyses and examinations made in the laboratory during the fiscal year ending June, 1886, consisting of chemical and mechanical analyses and scientific investigations and experiments for the Engineer Department, the health department, the Metropolitan police, and the coroner of the District of Columbia:

HEALTH OFFICE.

One hundred and four analyses were made for the health office in such cases as were referred by Dr. Smith Townshend, the health officer of the District.

The various articles thus examined for the purpose of determining the innocent or injurious qualities of the articles so analyzed, and their usefulness and influence in the sanitary condition, were of eight different classes, as follows:

| Class. | Articles analyzed. | Number. |
|--------|--------------------|---------|
| 1..... | Water..... | 55 |
| 2..... | Butter..... | 10 |
| 3..... | Milk..... | 22 |
| 4..... | Cream..... | 2 |
| 5..... | Vinegar..... | 5 |
| 6..... | Whisky..... | 5 |
| 7..... | Cognac..... | 2 |
| 8..... | Cheese..... | 3 |
| | Total..... | 104 |

The methods adopted by me in the examination and analyses of water, milk, and butter have already been fully described in my previous annual reports.

CORONER.

For the assistance at the inquests of the coroner, District of Columbia, three toxicological analyses were made during the year, and the results reported to Dr. Paterson, coroner.

METROPOLITAN POLICE.

By request of the chief of police, Major Dye, fifteen analyses were made for that department, as follows: Ten adulterated whiskies, one oleomargarine, one butterine, and three cases of poisoned food.

ENGINEER DEPARTMENT.

For the engineer department nineteen analyses of pump water have been made, the results of which have been reported to Lieutenant Townsend.

The Potomac water supplied to the District has been analyzed once a month, with the following results:

Analyses.

[1 liter (1,000 grams) of this water contains milligrams, parts per million.]

| No. | Appearance. | Solid residue | Organic volatile. | Mineral matter. | Free ammonia. | Albuminoid ammonia. | Nitrites. | Nitrates. | Chlorine. | Microscopic examination and gelatine test. |
|-----|-------------|---------------|-------------------|-----------------|---------------|---------------------|--------------|-----------|-----------|--|
| 1 | Milky | 92.00 | 48.00 | 44.00 | 0.12 | 0.050 | Traces | 2.00 | 4.50 | Good. |
| 2 | Clear | 90.00 | 30.00 | 60.00 | 0.09 | 0.060 | do | 1.70 | 4.00 | Do. |
| 3 | Muddy | 94.00 | 32.00 | 62.00 | 0.10 | 0.080 | do | 2.50 | 4.60 | Do. |
| 4 | Clear | 90.00 | 30.00 | 60.00 | 0.10 | 0.055 | do | 2.00 | 4.50 | Do. |
| 5 | Clear | 91.00 | 30.00 | 61.00 | 0.08 | 0.060 | do | 2.10 | 4.70 | Do. |
| 6 | Muddy | 96.02 | 45.00 | 51.02 | 0.12 | 0.100 | do | 2.75 | 4.20 | Do. |
| 7 | Milky | 91.07 | 32.00 | 59.07 | 0.09 | 0.070 | do | 2.00 | 4.00 | Do. |
| 8 | Clear | 90.00 | 30.00 | 60.00 | 0.10 | 0.050 | do | 2.00 | 4.02 | Do. |
| 9 | Clear | 90.02 | 31.00 | 59.02 | 0.08 | 0.060 | do | 2.05 | 4.04 | Do. |
| 10 | Milky | 92.00 | 30.00 | 62.00 | 0.10 | 0.090 | do | 2.00 | 4.60 | Do. |
| 11 | Milky | 90.50 | 30.07 | 59.43 | 0.09 | 0.070 | do | 2.10 | 4.50 | Do. |
| 12 | Clear | 90.00 | 30.00 | 60.00 | 0.06 | 0.050 | do | 2.00 | 4.00 | Do. |

The above table of analyses shows that the water supplied to the District varies somewhat in quality, occasioned by climatic causes, but that nevertheless the Potomac water is always a healthy beverage.

I have also, as in previous years, made daily analyses as the work progressed of the nature of asphalt pavements laid in the District. The average percentage of asphalt cement in 192 samples is:

| | |
|---|--------------|
| Chemically pure asphalt cement (=commercial, 14.10) | 9.40 |
| Carbonate of lime | 9.00 |
| Sand and stone dust | 81.60 |
| | <hr/> 100.00 |

The average composition of asphalt blocks is:

| | |
|---|--------------|
| Chemically pure asphalt cement (=commercial, 11.40) | 7.60 |
| Broken stone (CaCO ₃) | 92.40 |
| | <hr/> 100.00 |

These compositions give satisfactory results. Weekly reports of the analyses were submitted to the Engineer Commissioner, of the District of Columbia.

All the hydraulic cements used on the public works of the District have been submitted at my laboratory to a daily test as to their tensile strength, and weekly reports of the results obtained, together with the places where used, were submitted. I have also made analyses of the different cements in use, in order to find out the causes of the superiority or inferiority of the hydraulic cements employed.

The following tables show the average tensile strength per square inch of the various kinds of light-burned (home-made) and Portland cements in use here.

The cements of this class used in the District are the Shepherdstown Potomac cement, the Round Top Potomac cement, the Cumberland Potomac cement, the Norton Rosendale cement, and the Akron cement. This last cement has come into use here rather recently.

LIGHT-BURNED HYDRAULIC CEMENTS.

| Name. | Fineness, No. 50 sieve. | Quantity of cement and sand. | One day. | Five days. | Ten days. | Twenty days. | Thirty days. | Two months. | Six months. | Twelve months. |
|------------------------|-------------------------|------------------------------|----------|------------|-----------|--------------|--------------|-------------|-------------|----------------|
| Shepherdstown | Per ct. | | Lbs. | Lbs. | Lbs. | Lbs. | Lbs. | Lbs. | Lbs. | Lbs. |
| Do | 0 | Neat cement | 32 | 80 | 105 | 169 | 200 | 280 | 363 | 414 |
| Round Top | 5 | 2 sand, 1 cement | 26 | 30 | 80 | 100 | 125 | 160 | 203 | 203 |
| Do | 5 | Neat cement | 45 | 98 | 159 | 169 | 183 | 240 | 300 | 384 |
| Cumberland | 7 | 2 sand, 1 cement | 20 | 31 | 72 | 98 | 126 | 152 | 178 | 178 |
| Do | 7 | Neat cement | 57 | 98 | 150 | 170 | 218 | 240 | 350 | 389 |
| Norton Rosendale | 6 | 2 sand, 1 cement | 23 | 31 | 75 | 102 | 115 | 155 | 170 | 170 |
| Do | 6 | Neat cement | 40 | 42 | 65 | 90 | 150 | 295 | ..... | ..... |
| Akron | 0 | 2 sand, 1 cement | 50 | 85 | 155 | 215 | 350 | 380 | 478 | ..... |
| Do | 0 | Neat cement | 50 | 85 | 155 | 215 | 350 | 380 | 478 | ..... |
| Improved Union * | 0 | 2 sand, 1 cement | 95 | 150 | 190 | 250 | 375 | 420 | ..... | ..... |
| | | Neat cement | 95 | 150 | 190 | 250 | 375 | 420 | ..... | ..... |

PORTLAND HYDRAULIC CEMENTS.

| | | | | | | | | | | |
|----------------------|-------|------------------------|-------|-------|-----|-----|-----|-----|-----|-----|
| Brooks & Shoebridge. | 6 | Neat cement | 100 | 305 | 350 | 380 | 420 | 560 | 620 | 737 |
| Do | 6 | 2 sand, 1 cement ..... | ..... | ..... | 150 | 200 | 240 | 250 | 300 | 385 |
| Dyckenhoff † | 5 | Neat cement | 95 | 250 | 325 | 350 | 350 | 482 | 580 | 682 |
| Star † | 3 | 2 sand, 1 cement ..... | ..... | ..... | 165 | 172 | 240 | 276 | 302 | 360 |
| Do | 3 | Neat cement | 200 | 450 | 500 | 520 | 559 | 608 | 700 | 789 |
| Giant † ..... | ..... | 2 sand, 1 cement | 200 | 200 | 225 | 280 | 370 | 388 | 400 | 440 |
| Do ..... | ..... | ..... | 130 | 300 | 380 | 400 | 466 | 563 | 600 | 746 |
|  |  | ..... | ..... | ..... | 161 | 222 | 250 | 279 | 307 | 389 |

* This cement was not used here, but was sent as sample.

† American cement.

† Imported cement.

CHEMICAL ANALYSIS.

Chemical analysis furnishes the only means of predicting the quality of hydraulic cement and of adjusting the component parts of its composition, whenever necessary. Here we have an example of this statement of the Shepherdstown cement. On reference to my previous annual report, it will be found that this cement contained 68.61 per cent. bibasic silicates, and that its tensile strength was in one year 360 pounds. During this fiscal year I have found by analysis that this same cement contains 72.60 per cent. of bibasic silicates, and that the average tensile strength of one year is 414 pounds. Thus there is in one year, by an increase of 3.99 per cent. of bibasic silicates, an increase of tensile strength of 54 pounds.

Hydraulic cements heretofore were often sold on a reputation obtained through certificates given by persons having used many thousands of barrels, but some of them had never tried to discover by actual tests their comparative qualities. Hydraulic cements, principally the light-burned, were formerly judged by their dark or light color, for the darker the cement the better it was in the general estimation. Some of this ignorant prejudice still exists, but the intelligent consumer tests what he contracts for by the testing machine, and by that means finds out that the black or brown coloring matter has no virtue whatever, being so much inert matter naturally existing or fraudulently introduced to satisfy this public ignorant prejudice.

Another prejudice in regard to Portland cement is that to be good it must be imported. Portland cement can be made, and is made, in this country of as good quality as manufactured elsewhere. The use of the testing machine will corroborate the correctness of my statement. In this office the hydraulic cements are judged, accepted, or rejected on their intrinsic merits.

SAND TEST.

Hydraulic cement, though tested neat, is hardly, if ever, used in that condition, but is mixed with sand to make mortar for the construction of walls, &c., or mixed with broken stone, &c., to make concrete. As a matter of fact a hydraulic cement which shows great tensile strength will generally have great power of adhesion if fairly employed.

The desirability of ascertaining the adhesive power of a cement has led to what is known as the sand test. It is done by gauging cement with sand in certain fixed proportions and testing the briquettes, made in the ordinary manner, for tensile strength. But it is essential, in order to obtain satisfactory results, that the sand should have the required physical and chemical qualities.

I have seen sands, though clear and sifted through the same sieves, and not unlike under the microscope, give results that differed greatly when used with the same cements. This led me to investigate the causes of the different results apparently obtained under similar conditions.

In Germany, the Government sells a standard sand, to all who require it, at a moderate price. Here the contractors must obtain their sand where and how they can, to be accepted by the Government under certain specifications.

Two very essential points in selecting sand for making mortar should be observed:

First. That the sand be of a free siliceous nature without the admixture of carbonaceous sand or clay. Silica and silicates have great affinity for hydraulic cements and produce great adhesive power, while carbonates, such as carbonates of lime, &c., have much less, and give poor results. In a clear washed sand containing 20 per cent. of carbonaceous sand used with hydraulic cement, the tensile strength was reduced 30 per cent. After having been treated with hydrochloric acid and washed in order to eliminate the carbonates from the sand, its initiative adhesive power was restored. Thus in selecting sand a sample ought to be treated with hydrochloric acid, and if any effervescence is perceptible it is an indication that it contains carbonates, and the sand should therefore be rejected.

Second. The voids of the sand must be ascertained by first drying the sand and then filling a given measure with it well packed and filling the voids with water, the quantity of water used being equal to the voids in the sand. The quantity of the hydraulic cement employed with sand

to make mortar which will give excellent results should be equal to the volume of voids, plus 2 per cent.

The sand generally employed in the District of Columbia has voids from 31 to 32 per cent. The specifications for mortar are two parts of sand with one part of cement = $33\frac{1}{3}$ per cent. of hydraulic cement. By these proportions the voids are well filled and the results obtained are very satisfactory.

I would therefore recommend that it is important that the percentage of cement used in mortar with sand should be at least equal to the percentage of voids in the sand.

A sand having 40 per cent. of voids was mixed with $33\frac{1}{3}$ per cent. of hydraulic cement, and the average tensile strength of this (10 briquettes) was 15.50 pounds per square inch after ten days, while the hydraulic cement of the same barrel mixed in the same proportions, two of sand to one of cement, the sand having only 32 per cent. of voids, gave in ten days an average tensile strength per square inch (10 briquettes) of 62 pounds.

The importance of a sand test cannot be denied, and is, as we have seen, indispensable. A great deal has been written on this subject without giving much information, but in reality it is a simple matter. To test the cement with a standard sand is out of the question. The sand to be tested is the sand to be used, which, combined with the tests of the hydraulic cements to be employed, will give the necessary information as to the ultimate strength of the structure.

Very respectfully submitted.

E. J. DE SMEDT,
*Chemist, District of Columbia, General Inspector
of Asphalt Pavements and Hydraulic Cement.*

Col. WILLIAM LUDLOW,
Engineer Commissioner.

APPENDIX No. 10.

REPORT OF THE HARBOR MASTER.

OFFICE OF HARBOR MASTER,
Washington, D. C., November 24, 1886.

COLONEL: I have the honor to submit herewith my fifth annual report as harbor master, for the year ending June 30, 1886.

The accompanying tabular statements give the number of boats landing in our harbor, together with information as to cargoes carried and amount of material landed; also the number of vessels cleared for different ports and material exported.

For reasons set forth in my previous reports, and in view of the fact that the Commissioners have notified the occupants of wharves on the river front that they will be required to pay rent for the same, which will necessarily increase the duties and responsibilities of the harbor master, I again, as I have done in former reports, most respectfully but earnestly renew my suggestion that the Commissioners urge upon Congress the necessity of conferring upon them the power to make regulations to govern and protect the harbor master in the fuller discharge of his duties.

I also again renew my suggestion in relation to the harbor master being provided with a tug-boat, for reasons set forth in my previous reports.

Very respectfully,

J. R. SUTTON,
Harbor-Master.

To Col. WILLIAM LUDLOW,
Engineer Commissioner, District of Columbia.

Statement showing, by months, the departure of boats from the harbor of Washington, together with specifications of cargoes carried, during the year ending June 30, 1886.

| Months. | Vessels. | Soft coal. | Vessels. | Compost. | Boats moved to keelocks and channels clear. |
|----------------|----------|--------------|----------|--------------|---|
| | | <i>Tons.</i> | | <i>Tons.</i> | |
| July..... | 53 | 30,351 | 10 | 750 | 21 |
| August..... | 42 | 21,760 | 21 | 1,900 | 18 |
| September..... | 53 | 29,131 | 17 | 2,050 | 29 |
| October..... | 49 | 26,842 | 24 | 2,290 | 31 |
| November..... | 54 | 29,904 | 20 | 2,175 | 26 |
| December..... | 17 | 10,299 | 14 | 1,830 | 18 |
| January..... | | | | | |
| February..... | | | | | |
| March..... | | | 10 | 1,350 | 24 |
| April..... | | | 7 | 800 | 21 |
| May..... | | | 11 | 1,430 | 20 |
| June..... | 18 | 6,581 | 14 | 1,600 | 35 |
| Total..... | 286 | 154,868 | 148 | 16,045 | 253 |

List of steam vessels plying upon the Potomac River.

| Vessels. | Service. | Vessels. | Service. |
|-------------------------|------------------------|-----------------------|------------------|
| STEAMBOATS. | | TUG-BOATS—continued. | |
| Excelsior..... | Washington to Norfolk. | A. P. Gorman..... | Towing on river. |
| George Leary..... | Do. | G. W. Pride..... | Do. |
| Lady of the Lake..... | Do. | Ella Pearce..... | Do. |
| Jane Moseley..... | Do. | D. M. Key..... | Do. |
| Mattano..... | River landings. | Comet..... | Do. |
| T. V. Arrowsmith..... | Colonial Beach. | Mary Lewis..... | Do. |
| John W. Thompson..... | River landings. | Potomac..... | Do. |
| W. W. Corcoran..... | Mount Vernon. | Templar..... | Do. |
| Mary Washington..... | Ocoquan Falls. | J. A. Jackson..... | Do. |
| City of Alexandria..... | Alexandria. | Henry Winship..... | Do. |
| City of Washington..... | Do. | Zeta..... | Do. |
| Sne..... | Baltimore. | Hanson M. Key..... | Do. |
| Norfolk..... | Philadelphia. | Hercules..... | Do. |
| E. C. Knight..... | New York. | Samson..... | Do. |
| John Gibson..... | Do. | Hattie..... | Do. |
| Wakefield..... | River landings. | Annie..... | Do. |
| | | S. Thomas Brown..... | Do. |
| | | Edwin D. Hartley..... | Do. |
| | | Rock Point..... | Do. |
| | | Juno..... | Do. |
| | | Keystone..... | Do. |
| TUG-BOATS. | | | |
| Gilmore & Meredith..... | Towing on river. | | |
| Samuel Gedney..... | Do. | | |
| Fannie Gilbert..... | Do. | | |

to make mortar which will give excellent results should be equal to the volume of voids, plus 2 per cent.

The sand generally employed in the District of Columbia has voids from 31 to 32 per cent. The specifications for mortar are two parts of sand with one part of cement = $33\frac{1}{3}$ per cent. of hydraulic cement. By these proportions the voids are well filled and the results obtained are very satisfactory.

I would therefore recommend that it is important that the percentage of cement used in mortar with sand should be at least equal to the percentage of voids in the sand.

A sand having 40 per cent. of voids was mixed with $33\frac{1}{3}$ per cent. of hydraulic cement, and the average tensile strength of this (10 briquettes) was 15.50 pounds per square inch after ten days, while the hydraulic cement of the same barrel mixed in the same proportions, two of sand to one of cement, the sand having only 32 per cent. of voids, gave in ten days an average tensile strength per square inch (10 briquettes) of 62 pounds.

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Very respectfully submitted.

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*Chemist, District of Columbia, General Inspector
of Asphalt Pavements and Hydraulic Cement.*

Col. WILLIAM LUDLOW,
Engineer Commissioner.

APPENDIX No. 10.

REPORT OF THE HARBOR MASTER.

OFFICE OF HARBOR MASTER,
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I also again renew my suggestion in relation to the harbor master being provided with a tug-boat, for reasons set forth in my previous reports.

Very respectfully,

J. R. SUTTON,
Harbor-Master.

To Col. WILLIAM LUDLOW,
Engineer Commissioner, District of Columbia.

Statement showing, by months, the departure of boats from the harbor of Washington, together with specifications of cargoes carried, during the year ending June 30, 1886.

| Months. | Vessels. | Soft coal. | Vessels. | Compost. | Boats moved to keepdocks and channels clear. |
|----------------|----------|--------------|----------|--------------|--|
| | | <i>Tons.</i> | | <i>Tons.</i> | |
| July..... | 53 | 30,351 | 10 | 750 | 21 |
| August..... | 42 | 21,760 | 21 | 1,900 | 18 |
| September..... | 53 | 29,131 | 17 | 2,050 | 29 |
| October..... | 49 | 28,842 | 24 | 2,290 | 31 |
| November..... | 54 | 29,904 | 20 | 2,175 | 26 |
| December..... | 17 | 10,299 | 14 | 1,830 | 18 |
| January..... | | | | | |
| February..... | | | | | |
| March..... | | | 10 | 1,350 | 24 |
| April..... | | | 7 | 800 | 21 |
| May..... | | | 11 | 1,430 | 20 |
| June..... | 18 | 6,581 | 14 | 1,600 | 35 |
| Total..... | 286 | 154,868 | 148 | 16,045 | 253 |

List of steam vessels plying upon the Potomac River.

| Vessels. | Service. | Vessels. | Service. |
|-------------------------|------------------------|-----------------------|------------------|
| STEAMBOATS. | | TUG-BOATS—continued. | |
| Excelsior..... | Washington to Norfolk. | A. P. Gorman..... | Towing on river. |
| George Leary..... | Do. | G. W. Pride..... | Do. |
| Lady of the Lake..... | Do. | Ella Pearce..... | Do. |
| Jane Moseley..... | Do. | D. M. Key..... | Do. |
| Mattano..... | River landings. | Comet..... | Do. |
| T. V. Arrowsmith..... | Colonial Beach. | Mary Lewis..... | Do. |
| John W. Thompson..... | River landings. | Potomac..... | Do. |
| W. W. Corcoran..... | Mount Vernon. | Templar..... | Do. |
| Mary Washington..... | Ocoquan Falls. | J. A. Jackson..... | Do. |
| City of Alexandria..... | Alexandria. | Henry Winship..... | Do. |
| City of Washington..... | Do. | Zeta..... | Do. |
| Sue..... | Baltimore. | Hansom M. Key..... | Do. |
| Norfolk..... | Philadelphia. | Hercules..... | Do. |
| E. C. Knight..... | New York. | Samson..... | Do. |
| John Gibson..... | Do. | Hattie..... | Do. |
| Wakefield..... | River landings. | Annie..... | Do. |
| | | S. Thomas Brown..... | Do. |
| | | Edwin D. Hartley..... | Do. |
| | | Rock Point..... | Do. |
| | | Juno..... | Do. |
| | | Keystone..... | Do. |
| TUG-BOATS. | | | |
| Gilmore & Meredith..... | Towing on river. | | |
| Samuel Gedney..... | Do. | | |
| Fannie Gilbert..... | Do. | | |

Statement showing, by months, the arrival of boats in the harbor of Washington, together with specifications of cargoes carried, during the year ending June 30, 1886.

| Cargoes. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | June. | Total. |
|----------------------|-------|------|-------|------|------|------|------|------|------|------|------|-------|--------|
| Ice | 19 | 24 | 9 | 7 | 10 | 5 | 1 | 1 | 5 | 2 | 7 | 22 | 112 |
| Hard coal, schooners | 28 | 23 | 30 | 29 | 26 | 12 | | 1 | 13 | 8 | 22 | 29 | 226 |
| Hard coal, barges | 23 | 45 | 28 | 83 | 70 | 4 | 10 | 6 | 12 | 9 | 30 | 68 | 363 |
| Soft coal, boats | 66 | 51 | 52 | 46 | 38 | 25 | | | | | | 64 | 362 |
| Lumber | 27 | 18 | 24 | 16 | 23 | 16 | 1 | 1 | 12 | 20 | 25 | 25 | 308 |
| Laths | 2 | 2 | 1 | 1 | 1 | 4 | | | | 1 | | 2 | 14 |
| Shingles | 4 | 1 | 1 | 2 | 1 | 1 | | | | 2 | 1 | 4 | 17 |
| Stone | 4 | 5 | 4 | 4 | 4 | 3 | | | | | 2 | 2 | 28 |
| Guan | 4 | 8 | 2 | 1 | | | | | 1 | 1 | 1 | 3 | 21 |
| Cement | 1 | 1 | 1 | 1 | | | | | | 1 | | 1 | 6 |
| Plaster | 1 | | 1 | 1 | | | | | | | | 2 | 5 |
| Phosphate | 1 | | | | | | | | | | | | 1 |
| Asphalt | | | 1 | | 2 | 3 | | 1 | | 4 | 4 | | 14 |
| Watermelons | 8 | 117 | 16 | | | | | | | | | | 141 |
| Canned fruit | | | | 1 | | | | | | | | | 1 |
| Corn | | 1 | | 1 | | | | | | | 1 | | 3 |
| Gas-pipe | 1 | 1 | | | | | | | | | | 1 | 3 |
| Oil | 1 | | | | | | | | | | | | 1 |
| Kinate | | 2 | | | | | | | | | | 1 | 3 |
| Apples | 3 | 1 | | | | | | | | | | | 4 |
| Wheat | 4 | | 1 | | | | | | | 1 | | 2 | 8 |
| Straw | | | | | | | | | 1 | | | | 1 |
| Salt | 1 | | | 1 | | | | | | 2 | | | 4 |
| Salt fish | | | | 1 | | | | | | | | | 1 |
| Cedar posts | | | | 1 | | | | | | | | | 1 |
| Wood | 121 | 121 | 111 | 98 | 77 | 52 | 6 | | 54 | 90 | 60 | 57 | 847 |
| Oysters | | | 51 | 156 | 116 | 106 | | 25 | 68 | 56 | | | 578 |
| White sand | 1 | | | 1 | | | | | | | 2 | 2 | 6 |
| Fence rails | 1 | | | | | | | | | | | | 1 |
| Pears | | 2 | | | | | | | | | | | 2 |
| Tree-box sticks | | | 1 | | | | | | | | | | 1 |
| Gravel | | | 1 | | | | | | | | | 1 | 2 |
| Irish potatoes | | | | | | | | 1 | | | | | 1 |
| Hollow brick | | | | 1 | | | | | | | | 1 | 2 |
| Sweet potatoes | | 3 | 2 | 5 | 2 | 2 | | | | | | | 14 |

APPENDIX No. 11.

REPORT OF THE INSPECTOR OF BOILERS.

WASHINGTON, D. C., November 5, 1886.

GENTLEMEN: I have the honor to make a detailed statement of the operations of my office for the fiscal year ending June 30, 1886:

| | |
|---|-----|
| Number of boilers inspected | 273 |
| Number of boilers condemned for repairs | 6 |
| Number of boilers condemned as unfit for use | 2 |
| Number of new boilers erected | 34 |
| Number of boilers inspected and owned by District of Columbia | 40 |

With a view to increasing the efficiency of the office I would most respectfully urge the Commissioners to submit the following to Congress:

That the Commissioners are hereby authorized to appoint a person of good character and competent skill to be inspector of steam boilers for the District of Columbia, who shall hold said office two years, unless sooner removed, and whose duty it shall be to inspect all steam boilers in the said District, at least once in twelve months, and condemn such boilers as he may deem unsafe; and that the said inspector shall for every such inspection be entitled to receive as compensation the sum of five dollars, to be paid by the owner or owners of every such boiler inspected: *Provided, however,* That no charge be made for the inspection of any steam boiler belonging to the District of Columbia.

SEC. 2. That the inspector, upon such annual inspection, shall make a thorough examination of the boiler and, by proper and approved methods, determine the amount of steam pressure per square inch at which it can be safely worked; and shall also examine the feed-pumps, the gauges, cocks, and valves connected therewith, and by actual tests determine that the same are in proper working condition. He shall also

give the owner or owners of such boiler a certificate, stating the amount of pressure per square inch they are allowed to carry, which certificate shall be displayed in some conspicuous place in the establishment where such boiler is used. The inspector shall keep a record of each boiler inspected, with the name of owner or owners, and the amount of pressure per square inch which said boiler is allowed to carry, and shall return to the Commissioners annually a copy of said entries, together with a written statement of the number of all boilers inspected and condemned.

SEC. 3. That if any person or persons shall use a steam boiler after the same has been condemned, unless such boiler has been repaired so as to make it safe, or shall work any boiler at a pressure per square inch greater than that permitted by the certificate before named, or while the feed-pumps, gauges, cocks, or valves of the same are not in proper working condition shall be fined a sum not exceeding \$100 nor less than \$50 for each and every such offense.

SEC. 4. That the said inspector shall give bond, with two sufficient securities to be approved by the Commissioners, in the sum of \$2,000, and that he shall take and subscribe to the following oath or affirmation before a notary public or justice of the peace:

"I do solemnly swear that I will diligently, faithfully, and impartially execute the duties of my office without favor."

SEC. 5. That nothing herein contained shall be so construed as to require the inspector to inspect the boilers of steamboats (being otherwise provided for as per act of Congress).

I would also recommend that the Commissioners appoint two practical engineers with the steam-boiler inspector, to examine all persons for steam engineership in the District of Columbia, and no one shall be allowed to take charge of steam boilers or engines without receiving a certificate of competency from the board of examiners; and any engineer caught while on duty under the influence of intoxicating liquors shall be suspended for the space of six months, and for the second offense his certificate shall be revoked, and he shall not be allowed to take charge of steam boilers or engines any more within the limits of the District of Columbia; and I would further recommend that any person or persons found employing engineers without a certificate of competency shall be fined in a sum not exceeding \$50 nor less than \$25 for each and every such offense, fines to be collected as all others by the District of Columbia.

Respectfully submitted.

JOHN H. WILKERSON,

Steam-Boiler Inspector, 220 Seventh street, southeast.

Col. WILLIAM LUDLOW,

Engineer Commissioner, District of Columbia.

APPENDIX No. 12.

REPORT OF THE PROPERTY CLERK.

ENGINEER DEPARTMENT, DISTRICT OF COLUMBIA,
Washington, D. C., November 1, 1886.

SIR: I have the honor to transmit herewith the report of the property clerk for the fiscal year ending June 30, 1886.

Very respectfully,

F. O. BECKETT,

Property Clerk, Engineer Department.

WILLIAM LUDLOW,

United States Engineer Commissioner, D. C.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 181

CLASS 1.—Stationery.

| | |
|---|------------|
| Total amount purchased as per invoices and vouchers | \$5,481 87 |
| Issued as follows, to— | |
| Executive department | 415 00 |
| Engineer department | 743 00 |
| Water department | 360 11 |
| Auditor's department | 91 17 |
| Assessor's department | 281 28 |
| Collector's department | 97 93 |
| Attorney's office | 24 04 |
| Public schools | 2,587 51 |
| Fire department | 57 21 |
| Police court | 65 29 |
| Police department | 390 06 |
| Health department | 134 22 |
| Telegraph and telephone service | 23 65 |
| Washington Asylum | 133 46 |
| Parking Commission | 2 00 |
| Inspector of gas meters | 27 20 |
| Coroner's office | 8 95 |
| District offices | 39 78 |
| | 5,485 87 |

CLASS 2.—Blank forms and printing.

| | |
|---|------------|
| Total amount purchased as per invoices and vouchers | \$9,531 49 |
| Issued as follows, to— | |
| Executive department | 371 34 |
| General advertising | 1,905 44 |
| Engineer department | 580 91 |
| Water department | 531 34 |
| Auditor's department | 205 45 |
| Assessor's department | 430 02 |
| Collector's department | 464 85 |
| Attorney's office | 465 60 |
| Public schools | 2,168 89 |
| Fire department | 117 25 |
| Police court | 67 30 |
| Police department | 857 70 |
| Health department | 692 76 |
| Washington Asylum | 80 40 |
| Telegraph and telephone service | 2 80 |
| Inspector of gas and meters | 46 60 |
| Relief of the poor | 46 00 |
| District offices | 487 84 |
| | 9,531 49 |

CLASS 3.—School books.

| | |
|---|------------|
| Total amount purchased as per invoices and vouchers | \$3,277 99 |
| Issued as follows, to— | |
| Public schools | 3,269 64 |
| Sinking-fund office | 8 35 |
| | 3,277 99 |

CLASS 4.—Furniture.

| | |
|---|------------|
| Total amount purchased as per invoices and vouchers | \$4,711 53 |
| Issued as follows, to— | |
| District offices | 123 60 |
| Executive department | 292 66 |
| Engineer department | 85 28 |
| Water department | 64 18 |
| Assessor's department | 10 00 |
| Attorney's office | 102 81 |

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| | |
|---------------------------------------|------------|
| Public schools | \$1,150 76 |
| Fire department | 671 99 |
| Police court | 4 08 |
| Police department | 1,195 80 |
| Health department | 181 16 |
| Telephone and telegraph service | 34 03 |
| Inspector of gas and meters | 1 33 |
| Washington Asylum | 793 85 |

4,711 53

CLASS 5.—Hardware.

Total amount purchased as per invoices and vouchers \$3,001 79

Issued as follows, to—

| | |
|---------------------------------------|----------|
| District offices | 20 49 |
| Executive department | 39 84 |
| Engineer department | 456 33 |
| Water department | 115 33 |
| Public schools | 1,180 67 |
| Fire department | 182 74 |
| Police court | 8 90 |
| Police department | 186 69 |
| Health department | 31 48 |
| Washington Asylum | 431 64 |
| Telegraph and telephone service | 2 09 |
| Parking commission | 292 55 |
| Inspector of gas and meters | 1 76 |
| Markets | 27 58 |
| Holmead Cemetery fund | 23 75 |

3,001 79

CLASS 6.—Tinware and street lamps.

Total amount purchased as per invoices and vouchers \$3,531 34

Issued as follows, to—

| | |
|---------------------------------------|----------|
| District offices | 215 34 |
| Engineer department | 325 40 |
| Water department | 91 25 |
| Attorney's office | 38 50 |
| Public schools | 1,484 79 |
| Fire department | 206 16 |
| Police court | 90 41 |
| Police department | 340 83 |
| Health department | 34 34 |
| Washington Asylum | 653 88 |
| Telegraph and telephone service | 42 44 |
| Markets | 7 50 |
| Inspector of gas and meters | 50 |

3,531 34

CLASS 7.—Plumbers' supplies.

Total amount purchased as per invoices and vouchers \$5,262 04

Issued as follows to—

| | |
|-----------------------------------|----------|
| District offices | \$15 25 |
| Engineer department | 13 38 |
| Water department | 3,881 20 |
| Public schools | 484 55 |
| Fire department | 614 23 |
| Police court | 10 25 |
| Police department | 29 25 |
| Washington Asylum | 183 93 |
| Health department | 23 75 |
| Inspector of gas and meters | 6 25 |

5,262 04

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CLASS 8.—Groceries.

| | |
|--|-----------------|
| Total amount purchased as per invoices and vouchers..... | \$13,803 39 |
| Issued as follows, to— | |
| District offices..... | \$22 59 |
| Engineer department..... | 29 72 |
| Water department..... | 12 53 |
| Public schools..... | 55 69 |
| Fire department..... | 83 34 |
| Police department..... | 90 44 |
| Police court..... | 1 70 |
| Washington Asylum..... | 13,465 80 |
| Health department..... | 6 07 |
| Telegraph and telephone service..... | 2 73 |
| Inspector of gas and meters..... | 26 65 |
| Markets..... | 4 16 |
| Transportation prisoners..... | 1 97 |
| | <hr/> 13,803 39 |

CLASS 9.—Boots and shoes.

| | |
|--|----------------|
| Total amount purchased as per invoices and vouchers..... | \$1,435 97 |
| Issued as follows, to— | |
| Engineer department..... | 107 75 |
| Washington Asylum..... | 1,328 22 |
| | <hr/> 1,435 97 |

CLASS 10.—Drugs.

| | |
|--|----------------|
| Total amount purchased as per invoices and vouchers..... | \$1,381 15 |
| Issued as follows, to— | |
| District offices..... | 14 56 |
| Executive department..... | 85 |
| Engineer department..... | 53 94 |
| Water department..... | 6 61 |
| Public schools..... | 24 28 |
| Fire department..... | 365 42 |
| Police department..... | 170 52 |
| Washington Asylum..... | 675 49 |
| Health department..... | 22 51 |
| Telegraph and telephone service..... | 25 08 |
| Inspector of gas and meters..... | 16 24 |
| Transportation prisoners..... | 5 65 |
| | <hr/> 1,381 15 |

CLASS 11.—Glass, paints, and varnish.

| | |
|--|----------------|
| Total amount purchased as per invoices and vouchers..... | \$1,195 90 |
| Issued as follows, to— | |
| Executive department..... | 22 |
| Engineer department..... | 27 40 |
| Water department..... | 322 17 |
| Public schools..... | 362 69 |
| Fire department..... | 154 24 |
| Police department..... | 38 40 |
| Washington Asylum..... | 274 84 |
| Health department..... | 7 52 |
| Parking commission..... | 75 |
| Markets..... | 7 67 |
| | <hr/> 1,195 90 |

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CLASS 12.—*Lumber.*

| | |
|---|----------------|
| Total amount purchased as per invoices and vouchers | \$3,752 75 |
| Issued as follows, to— | |
| Engineer department | 1,833 11 |
| Water department | 93 97 |
| Public schools | 1,339 77 |
| Fire department | 20 00 |
| Police department | 23 67 |
| Washington Asylum | 434 77 |
| Health department | 1 52 |
| Telegraph and telephone service | 5 94 |
| | <hr/> 3,752 75 |

CLASS 13.—*Forage.*

| | |
|---|----------------|
| Total amount purchased as per invoices and vouchers | \$9,918 32 |
| Issued as follows, to— | |
| Engineer department | 321 96 |
| Water department | 457 05 |
| Assessor's office | 82 14 |
| Fire department | 5,327 12 |
| Police department | 657 55 |
| Washington Asylum | 1,839 99 |
| Health department | 464 37 |
| Telegraph and telephone service | 234 24 |
| Parking commission | 177 24 |
| Conveyance of prisoners | 246 37 |
| Miscellaneous expenses, District of Columbia | 110 29 |
| | <hr/> 9,918 32 |

CLASS 14.—*Fresh meats and corned beef.*

| | |
|---|------------|
| Total amount purchased as per invoices and vouchers | \$4,961 99 |
| Issued as follows, to— | |
| Washington Asylum | 4,961 99 |

CLASS 15.—*Bacon and ham.*

| | |
|---|----------|
| Total amount purchased as per invoices and vouchers | \$852 65 |
| Issued as follows, to— | |
| Washington Asylum | 852 65 |

CLASS 16.—*Lamp-posts and castings.*

| | |
|---|----------------|
| Total amount purchased as per invoices and vouchers | \$2,106 20 |
| Issued as follows, to— | |
| Engineer department | 2,066 38 |
| Public schools | 27 82 |
| Fire department | 12 00 |
| | <hr/> 2,106 20 |

CLASS 17.—*Fuel.*

| | |
|---|--------------|
| Total amount purchased as per invoices and vouchers | \$23,749 63 |
| Issued as follows, to— | |
| District offices | |
| Engineer department | 468 55 |
| Water department | 126 85 |
| Public schools | 4,348 33 |
| Fire department | 12,485 96 |
| Police court | 1,646 18 |
| | <hr/> 193 86 |

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| | |
|---------------------------------------|------------|
| Police department | \$1,547 85 |
| Washington Asylum | 2,465 37 |
| Health department | 81 34 |
| Telegraph and telephone service | 104 06 |
| Attorney's office | 71 12 |
| Inspector of gas and meters | 67 47 |
| Markets | 47 85 |
| Public stable | 3 12 |
| House of Mercy | 32 49 |
| Industrial school | 59 30 |
| | <hr/> |
| | 23,749 68 |

CLASS 18.—Dry goods.

| | |
|---|-------------------|
| Total amount purchased as per invoices and vouchers | <u>\$3,432 67</u> |
|---|-------------------|

Issued as follows, to—

| | |
|------------------------------|----------|
| District offices | 4 50 |
| Collector's department | 27 |
| Public schools | 43 08 |
| Fire department | 310 81 |
| Police department | 86 34 |
| Washington Asylum | 2,985 48 |
| Health department | 2 19 |
| | <hr/> |
| | 3,432 67 |

CLASS 19.—Telephone and telegraph supplies.

| | |
|---|-------------------|
| Total amount purchased as per invoices and vouchers | <u>\$1,597 99</u> |
|---|-------------------|

Issued as follows, to—

| | |
|---------------------------------------|----------|
| Telegraph and telephone service | 1,597 99 |
|---------------------------------------|----------|

CLASS 20.—Construction material.

| | |
|---|------------------|
| Amount on hand, per last report, July 1, 1885 | \$33,625 09 |
| Amount purchased to June 30, 1886 | <u>73,717 76</u> |

| | |
|---------------------------------|-------------------|
| Total to be accounted for | <u>107,342 85</u> |
|---------------------------------|-------------------|

| | |
|---|------------------|
| Total amount issued | 71,892 64 |
| Balance remaining on hand June 30, 1886 | <u>35,450 21</u> |

| | |
|---------------------------------|------------|
| Total to be accounted for | 107,342 85 |
|---------------------------------|------------|

Miscellaneous supplies, expenses, and repairs, various offices in Columbia building.

| | |
|---|----------|
| For washing towels | \$140 12 |
| For carpenter work and repairs to furniture | 756 61 |
| For repairs to plumbing | 94 36 |
| For cleaning and laying carpets | 32 58 |
| For painting and whitewashing | 21 00 |
| For repairing clocks | 20 00 |
| For hauling old material | 41 35 |
| For book-binding | 16 50 |
| For ice | 207 33 |
| Miscellaneous items | 10 00 |
| | <hr/> |
| | 1,339 85 |

For executive department—

| | |
|---|--------|
| For livery | 424 49 |
| For horseshoeing | 70 50 |
| For repairs to carriages | 93 25 |
| For difference in exchange of carriages | 125 00 |
| For saddlery supplies and repairs | 120 85 |
| For veterinary service and pasturage | 148 40 |

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| | |
|-------------------------------|---------|
| For binding and material..... | \$56 10 |
| For metallic files..... | 40 00 |
| For law books..... | 53 00 |
| For type-writer supplies..... | 6 40 |
| For stamps and ribbon..... | 4 40 |
| For patent pens..... | 7 20 |
| For miscellaneous items..... | 10 90 |

1,160 49

| | |
|---|----------|
| For engineer department— | |
| For new instruments and repairs..... | \$416 25 |
| For photographic supplies..... | 343 32 |
| For rent of square 473..... | 300 00 |
| For repairs to vehicles..... | 206 30 |
| For livery..... | 483 03 |
| For veterinary service and pasturage..... | 127 33 |
| For saddlery material and repairs..... | 100 73 |
| For new wagon and carriage..... | 550 00 |
| For two horses..... | 425 00 |
| For horseshoeing..... | 82 88 |
| For Victor tricycle..... | 180 00 |
| For type-writer and cabinet..... | 115 00 |
| For tar kettle..... | 250 00 |
| For plows and plowshares, &c..... | 122 99 |
| For road-sweeping machine..... | 90 00 |
| For maps and mounting..... | 132 34 |
| For curb lifters..... | 50 00 |
| For daylight reflectors..... | 60 00 |
| For numbering machine..... | 40 50 |
| For stamps and pads..... | 32 00 |
| For flushing sewer valves..... | 25 00 |
| For curvograph..... | 23 00 |
| For hauling terra-cotta pipe..... | 61 94 |
| For repairing furniture..... | 23 90 |
| For binding books..... | 23 00 |
| For drawing-boards..... | 17 00 |
| For fencing wire and staples..... | 15 61 |
| For roofing felt..... | 29 10 |
| For periodicals and papers..... | 14 25 |
| For scales..... | 11 00 |
| For miscellaneous items..... | 30 84 |

4,382 31

| | |
|---|----------|
| For water department: | |
| For five new wagons..... | \$205 00 |
| For iron pumps..... | 343 42 |
| For 3-inch cast-iron pipe..... | 552 81 |
| For special castings, bends, sleeves, valves, &c..... | 1,011 76 |
| For repairing boilers..... | 341 68 |
| For rubber valves and washers..... | 112 80 |
| For sole leather..... | 110 35 |
| For repairs to wagon..... | 46 00 |
| For saddlery supplies and repairs..... | 126 35 |
| For water-main maps..... | 71 66 |
| For stamps and pads..... | 29 50 |
| For pipe jointer..... | 24 00 |
| For pump logs..... | 18 00 |
| For repairs to gauge and float..... | 10 00 |
| For shelving..... | 38 00 |
| For liquid polish..... | 12 00 |
| For binding..... | 15 00 |
| For awning..... | 10 00 |
| For miscellaneous items..... | 14 00 |

3,092 33

For auditor's office:

| | |
|--------------------------------|---------|
| For stamps, pads, and ink..... | \$11 10 |
| For repairing stamps..... | 15 50 |
| For miscellaneous items..... | 1 50 |
| | <hr/> |
| | 28 10 |

For collector's office:

| | |
|-------------------------|--------|
| For stamps and ink..... | 1 25 |
| For dog tags..... | 214 00 |
| | <hr/> |
| | 215 25 |

For assessor's office:

| | |
|------------------------------|--------|
| For stamps..... | 11 50 |
| For city subdivisions..... | 75 00 |
| For city plats..... | 21 25 |
| For repairing buggy..... | 66 50 |
| For horseshoeing..... | 24 50 |
| For veterinary service..... | 8 50 |
| For repairs to harness..... | 6 25 |
| For miscellaneous items..... | 9 00 |
| | <hr/> |
| | 222 50 |

For attorney's office:

| | |
|------------------------------------|-------|
| For law books..... | 32 20 |
| For repairing furniture..... | 16 00 |
| For awnings..... | 12 00 |
| For ice..... | 15 85 |
| For laying and sewing carpets..... | 4 10 |
| | <hr/> |
| | 80 15 |

For public schools:

| | |
|--|-----------|
| For school desks, chairs, and tables..... | 8,636 52 |
| For repairing and setting school furniture..... | 1,540 44 |
| For hauling school furniture and supplies..... | 451 00 |
| For carpenter work and repairs..... | 284 81 |
| For clocks and connecting with Gardner system..... | 751 00 |
| For engraving and filling in diplomas..... | 253 55 |
| For type-writers and supplies..... | 185 60 |
| For lathe, circular-saw, shafting, &c..... | 356 28 |
| For tools for High School..... | 39 50 |
| For rental of theater..... | 95 00 |
| For philosophical apparatus..... | 55 10 |
| For gas-fixtures..... | 75 60 |
| For repairs to clocks and batteries..... | 56 90 |
| For tuning and moving pianos..... | 26 50 |
| For cucumber pumps..... | 33 00 |
| For set of large maps..... | 42 17 |
| For platform scale..... | 15 00 |
| For chair tips..... | 11 52 |
| For miscellaneous items..... | 28 78 |
| | <hr/> |
| | 12,938 27 |

For fire department:

| | |
|---|----------|
| For hose, couplings, and play pipes..... | 2,189 00 |
| For repairs to apparatus..... | 2,789 82 |
| For purchase of nine horses..... | 2,475 00 |
| For repairs to harness and saddlery supplies..... | 1,033 17 |
| For ladders..... | 647 00 |
| For mechanical trips and attaching..... | 447 00 |
| For fire-extinguishers, repairs, and charges..... | 300 00 |
| For wagon..... | 175 00 |
| For pasturage and veterinary service..... | 142 01 |
| For gas fixtures..... | 139 10 |
| For ice..... | 199 67 |
| For cleaning and laying carpets..... | 131 12 |

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| | |
|---|---------|
| For repairing furniture..... | \$88 90 |
| For remaking and cleaning mattresses..... | 38 75 |
| For clock, Gardner system..... | 30 00 |
| For whistle gauges..... | 30 00 |
| For hauling ashes..... | 28 00 |
| For grate-bars..... | 16 20 |
| For mounting maps..... | 15 00 |
| For miscellaneous items..... | 45 54 |

10,962 28

For police department:

| | |
|--|--------|
| For patrol wagon..... | 335 00 |
| For ambulance..... | 375 00 |
| For three horses..... | 700 00 |
| For new harness and repairs..... | 278 15 |
| For repairs to vehicles..... | 212 35 |
| For horseshoeing..... | 154 37 |
| For photograph cabinet..... | 150 00 |
| For repairs to furniture..... | 127 25 |
| For ice..... | 205 63 |
| For veterinary service..... | 99 22 |
| For designations and ornaments..... | 68 80 |
| For revolvers..... | 47 50 |
| For platform scale with measuring rod..... | 37 50 |
| For clocks and Gardner system..... | 45 00 |
| For boards and trestles..... | 29 75 |
| For engraving badges and revolvers..... | 17 95 |
| For duplex calls..... | 18 00 |
| For cartridges..... | 8 50 |
| For book-binding..... | 45 00 |
| For gas fixtures..... | 34 50 |
| For cleaning and laying carpets..... | 15 43 |
| For hauling furniture..... | 16 00 |
| For awnings..... | 14 25 |
| For miscellaneous items..... | 23 95 |

3,049 10

For health department:

| | |
|---|--------|
| For purchase of one horse..... | 225 00 |
| For wire cages and paving at pound..... | 209 80 |
| For repairing wagons and dog nets..... | 130 30 |
| For saddlery supplies and repairs..... | 185 50 |
| For type-writer and supplies..... | 120 45 |
| For slaked lime..... | 79 65 |
| For horseshoeing..... | 80 50 |
| For repairing furniture..... | 35 05 |
| For book-binding..... | 34 84 |
| For ice..... | 35 40 |
| For cartridges..... | 15 00 |
| For cleaning and laying carpets..... | 13 64 |
| For veterinary service..... | 12 00 |
| For journal of medical association..... | 10 00 |
| For water-cooler and stand..... | 14 50 |
| For miscellaneous items..... | 13 93 |

1,215 56

For police court:

| | |
|--|--------|
| For dockets and indexes..... | 84 50 |
| For carpenter-work and repairs of furniture..... | 125 55 |
| For ice..... | 91 35 |
| For handcuffs..... | 42 00 |
| For stamps..... | 11 35 |
| For Norton door-check..... | 6 75 |
| For miscellaneous items..... | 14 36 |

375 86

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 189

For parking commission:

| | |
|--|------------|
| For tree boxes and stakes | \$3,596 52 |
| For hauling tree boxes and stakes | 172 87 |
| For tree straps..... | 100 00 |
| For soil..... | 78 10 |
| For repairing tools..... | 95 05 |
| For repairing wagon..... | 73 15 |
| For saddlery, supplies and repairs | 19 25 |
| For veterinary service..... | 16 30 |
| For cypress trees | 12 45 |
| For horseshoeing..... | 5 25 |
| For miscellaneous items | 6 30 |

4,175 24

For telegraph and telephone service:

| | |
|---------------------------------|----------|
| For rent of telephones, &c..... | 1,573 30 |
| For signal boxes | 1,000 00 |
| For electrical trips | 245 00 |
| For magneto call-bell | 100 00 |
| For purchase of one horse | 150 00 |
| For veterinary service..... | 48 50 |
| For ice | 18 20 |
| For repairing harness | 18 50 |
| For electrical condenser | 10 50 |
| For plumbing..... | 7 45 |
| For cleaning carpets | 6 32 |
| For miscellaneous items | 16 06 |

3,193 83

For Washington Asylum:

| | |
|---|--------|
| For house furnishing goods..... | 509 44 |
| For seeds and guano | 85 01 |
| For wagon material | 181 19 |
| For pear-trees and grape vines..... | 50 25 |
| For wagon..... | 150 00 |
| For pigs | 87 50 |
| For bal exchange of cows..... | 40 00 |
| For ice | 254 88 |
| For mowing machine..... | 55 00 |
| For hats and mittens | 93 96 |
| For sole-leather | 134 87 |
| For repairs of vehicles..... | 124 00 |
| For saddlery supplies and repairs..... | 143 40 |
| For veterinary service..... | 36 49 |
| For repairs to boilers and kettles | 184 60 |
| For removing building | 175 00 |
| For tin roofing..... | 83 00 |
| For repair to plumbing, &c | 83 26 |
| For paper hanging | 22 87 |
| For subscription to Medical Journal | 23 00 |
| For clocks | 13 25 |
| For miscellaneous items | 23 50 |

2,555 17

For inspector of gas and meters:

| | |
|-------------------------------|-------|
| For meter seals | 30 25 |
| For rubber tubing | 13 56 |
| For ice | 8 40 |
| For washing towels..... | 7 36 |
| For miscellaneous items | 1 42 |

60 99

For conveyance of prisoners:

| | |
|-------------------------------|--------|
| For repairs to vans | 260 70 |
| For purchase of 2 horses..... | 500 00 |
| For horseshoeing..... | 52 25 |

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| | |
|------------------------------|---------|
| For veterinary service | \$46 00 |
| For repairs to harness..... | 16 60 |
| For hire of horse | 7 00 |
| For miscellaneous items..... | 1 75 |
| | <hr/> |
| | 884 30 |

For miscellaneous expenses, District of Columbia :

| | |
|---|--------|
| For care of horses at public stable | 360 00 |
| For repairs of stable..... | 64 05 |
| For horseshoeing..... | 27 75 |
| For repairs to harness..... | 11 55 |
| For hack badges..... | 45 00 |
| For flag and draping material | 45 39 |
| For building material..... | 48 71 |
| For services of steam tub..... | 12 00 |
| For 32 books to order..... | 322 00 |
| | <hr/> |
| | 936 45 |

| | |
|---|------------|
| Total for miscellaneous expenses, &c..... | 50,676 77 |
| Total for year ending June 30, 1886..... | 224,008 13 |

APPENDIX No. 13.

SPECIFICATIONS FOR STANDARD PAVEMENTS.

STREET-CONSTRUCTION MATERIAL.

ASPHALT PAVING BLOCKS.

(1) The size of the blocks will be 4 by 5 by 12 inches, and a variation of one-fourth of an inch from these dimensions will be sufficient grounds for rejecting any block.

(2) The blocks will be composed of paving cement 8 to 12 per cent., crushed limestone 92 to 88 per cent.

(3) The paving cement will be an admixture of refined Trinidad asphalt with the residual oil obtained from the distillation of petroleum. No product of the distillation of coal tar will be permitted. The right is reserved to inspect the manufacture of the blocks at any time.

(4) All bids must be accompanied by a specimen block of the size and quality described in these specifications, labeled with the name of the bidder and the locality of the factory. Bids not accompanied by specimen blocks will not be considered.

GRANITE PAVING BLOCKS.

(5) The blocks may be of any syenite or granite, equal in hardness to what is known as Quincy granite, but must be of uniform grain and texture, without lamination or stratification, and free from excess of mica or feldspar; stone that will take a smooth polish under traffic will not be accepted. Soft or weather-worn stones obtained from the surface of the quarry will not be accepted.

(6) The blocks must be of the following dimensions, viz: In length, not more than 8 nor less than 6 inches; in width, not more than 4 nor less than 3 inches; in depth, not more than 6 nor less than 5½ inches. The size preferred is 7 inches long, 4 inches wide, and 6 inches deep. They must be sufficiently dressed to present rectangular faces, with straight edges on top, bottom, and sides, and all blocks whose faces

vary more than half an inch from a rectangular shape will be rejected. The sides and ends of the blocks must be so dressed that they will make close-fitting joints, and any block which has a greater projection than half an inch will be rejected.

CONDITIONS OF DELIVERY.

(7) Blocks shipped by water must be delivered within one of the property yards of the District of Columbia, which are situated at the foot of Sixth street and of G street, respectively; blocks shipped by the Baltimore and Potomac Railway will be delivered on Reservation 17, or on the reservation at intersection of Maryland and Virginia avenues, between Seventh and Ninth streets; blocks shipped by the Baltimore and Ohio Railroad may be delivered on the triangular space between G and H streets, Delaware avenue and First street. In every case the cost of unloading the blocks and placing them in the property yards or reservations ready for inspection must be paid by the contractor.

The blocks will be carefully inspected upon delivery by the Engineer Commissioner or his agents, and all blocks which do not conform to the foregoing specifications in size or quality must be immediately removed by the contractor at his own expense. The contractor must also furnish at his own expense such laborers as may be deemed necessary by the Engineer Commissioner to assist his agents in inspecting and culling the blocks.

(8) All bids must be accompanied by a specimen block of the size and quality described in these specifications, labeled with the name of the bidder and the locality of the quarry. Bids not accompanied by specimen blocks will not be accepted.

Specifications for laying granite block pavement.

(1) The granite block pavement will be laid on a foundation of gravel and sand, with filling of hot paving-cement.

(2) The granite blocks will be furnished by the District, on Maryland avenue between Seventh and Ninth streets southwest, and must be hauled thence to the street at the contractor's expense. Ten per cent. of the cost of these blocks will be retained as part of the guarantee fund specified in paragraph 7 of the general conditions hereto attached.

(3) The space over which the pavement is to be laid will be excavated to the depth of $12\frac{1}{2}$ inches below the surface of the proposed pavement when completed. Any objectionable or unsuitable material below the bed will be removed and the space filled with clean gravel or sand. Care must be taken in excavating to preserve the proper crown. All holes and inequalities to be filled with sand or gravel, and such filling to be thoroughly compacted by rolling or ramming.

(4) Upon this foundation is to be laid a bed of fine bank gravel, 4 inches in depth when compressed, screened from all pebbles measuring more than $1\frac{1}{2}$ inches in their largest dimensions, and thoroughly rammed. Upon this will be laid a bed of fine, sharp sand, washed and dried, 3 inches in thickness, to serve as a bed for the blocks, which will be laid directly upon and imbedded in it, with close joints. The stone blocks are to be laid at right angles with the line of the street; each course to be of blocks of a uniform width and depth, and so laid that all longitudinal joints shall be broken by a lap of at least 2 inches. When thus laid, the blocks will be immediately covered with clean, fine hot gravel, in proper quantities, raked until all the joints become filled therewith,

and the blocks will then be carefully rammed to a firm, unyielding bed, with uniform surface and with proper grade. There will then be poured into the joints, at a temperature of 300° Fahrenheit, paving cement of proper consistency, to be obtained by the direct distillation of coal-tar. The cement required is that ordinarily numbered 6 at the manufactory. It will be poured into the joints of the pavement until the sand beneath and the gravel between the blocks will absorb no more and the joints are filled flush with the upper surface of the pavement. Dry, hot gravel, not larger than $\frac{3}{4}$ of an inch in any dimension, will then be poured along the joints and will be consolidated by tapping with a light rammer. Not less than 3 gallons of paving cement to each square yard of pavement will be required. This quantity must be brought upon the ground, upon the line of the work, and whatever may remain after the completion of the work will be the property of the District of Columbia, and will be hauled to the Sixth street property yard at the expense of the contractors. Any wastage of paving cement by pouring over the surface of the pavement instead of between the blocks will be estimated and deducted from the amount reported to have been used, and any such wastage of paving cement remaining upon the surface of the pavement must be covered with a sufficient quantity of fine dry gravel to absorb it.

Specifications for laying street pavements.

STANDARD ASPHALT PAVEMENT.

(1) Standard asphalt pavement will be $2\frac{1}{2}$ inches in thickness when compacted, with a base of hydraulic cement concrete 6 inches in depth.

(2) The space over which the pavement is to be laid will be excavated to the depth of 9 inches below the top surface of the pavement when completed. Any objectionable or unsuitable material below the bed will be removed and the space filled with clean gravel or sand well rammed. The bed will then be trimmed so as to be parallel to the surface of the new pavement when completed, and the entire road-bed will be thoroughly rolled with a heavy steam-roller.

Upon this foundation will be laid a bed of hydraulic cement concrete 6 inches in thickness, to be made as follows:

One measure of cement, equal to the best quality of fresh-burned hydraulic American cement, and two of clean, sharp, washed sand, free from clay, will be thoroughly mixed dry and made into a mortar with the least possible amount of water; broken stone or hard brick of acceptable dimensions and character, thoroughly cleaned from dust and dirt, drenched with water, but containing no loose water in the heap, will be incorporated immediately with the mortar in such quantities as will give a surplus of mortar when rammed. This proportion, when ascertained, will be regulated by measure. Each batch of concrete will be thoroughly mixed, the mixing being continued on the board until each piece of stone or brick is completely coated with mortar; it will then be spread and at once thoroughly compacted by ramming until free mortar appears upon the surface. The whole operation of mixing and laying each batch will be performed as expeditiously as possible, with the use of a sufficient number of skilled men. No gravel will be used in the concrete, but only angular fragments of stone or brick, having rough faces obtained by fracture, and measuring not more than $1\frac{1}{2}$ inches in their largest dimensions. The upper surface of the base will be made parallel with the crown of the pavement to be laid, and will be suitably protected from the action of the sun and wind until set.

(3) The wearing surface will be composed of: (1) refined Trinidad or other acceptable asphaltum; (2) heavy petroleum; (3) fine sand, containing not more than 5 per cent. of hydrosilicate of alumina; (4) fine powder of carbonate of lime.

(4) The asphaltum must be refined and brought to a uniform standard of purity and gravity.

(5) The petroleum must be freed from all impurities and brought to a specific gravity of from 18° to 22° Beaumé and a fire test of 250° Fahrenheit.

(6) They will be mixed in the following proportions by weight: With Trinidad asphalt—asphalt, 100 parts; petroleum, from 14 to 17 parts.

(7) The proportion of mixture for other asphalts will be determined by their chemical composition.

(8) The asphaltic cement, made in the manner above described, will be mixed with other materials in the following proportions by weight, viz, asphaltic cement, from 15 to 18; sand, from 70 to 65; pulverized carbonate of lime, from 15 to 17.

(9) The proportion of materials used will depend upon their character and the traffic on the street, and will be determined by the Engineer Commissioner. If the proportions of the mixture are varied in any manner from those specified the mixture will be condemned; its use will not be permitted; and, if already placed on the street, it will be removed and replaced by proper material at the expense of the contractor.

(10) The sand and asphaltic cement will be heated separately to about 300° Fahrenheit. The pulverized carbonate of lime, while cold, will be mixed with the hot sand in the required proportions, and then mixed with the asphaltic cement, at the required temperature and in the proper proportion, in a suitable apparatus, so as to effect a thoroughly homogeneous mixture.

(11) The pavement mixture, prepared in the manner thus indicated, will be laid on the foundation as follows: It will be brought to the ground in carts at a temperature of about 250° Fahrenheit, and carefully spread, by means of hot iron rakes, in such manner as to give a uniform and regular surface and to such depth as, after having received its ultimate compression of 40 per cent., to have a thickness of 2½ inches. This depth will be tested by means of gauges furnished by the Engineer Commissioner. The surface will then be compacted by tamping-irons and hand-rollers, after which a small amount of dry hydraulic cement will be swept over it, and it will then be thoroughly compacted by a steam-roller weighing not less than 250 pounds to the inch run, the rolling being continued for not less than five hours for every 1,000 yards of surface.

(12) All materials used, as well as the plant and methods of manufacture, will be subject to the inspection and approval of the Engineer Commissioner.

(13) The degree of fineness both of sand and powdered limestone will be determined by testing with screens, as follows: The powdered carbonate of lime will be of such degree of fineness that 16 per cent. by weight shall be an impalpable powder of limestone, and the whole of it shall pass a No. 26 screen. The sand will be of such size that none of it will pass a No. 80 screen and the whole of it shall pass a No. 20 screen.

(14) In order to make the gutters impervious to water, a width of 12 inches next the curb will be coated with hot, pure asphalt smoothed with hot smoothing irons.

(15) The law requires that the pavement to be laid shall be in no respect inferior to the best of those now in service.

Coal-tar distillate and asphalt pavement.

(1) Coal-tar distillate and asphalt pavement will be $1\frac{1}{2}$ inches in thickness when compacted, with a bituminous base and binder $4\frac{1}{2}$ inches in depth.

(2) The space over which the pavement is to be laid will be excavated to the depth of 6 inches below the top surface of the pavement when completed. Any objectionable or unsuitable material below the bed will be removed and the space filled with clean gravel or sand well rammed. The bed will then be trimmed so as to be exactly parallel to the surface of the new pavement when completed, and the entire road-bed will be thoroughly rolled with a heavy steam-roller.

Upon this foundation will be laid the base and binder, $4\frac{1}{2}$ inches in thickness, in the following manner:

(3) The base will be composed of clean, broken stone that will pass through a 3-inch ring, well rammed and rolled with a steam-roller to a depth of 4 inches, and thoroughly coated with hot paving cement composed of No. 4 coal-tar distillate in the proportion of about 1 gallon to the square yard of pavement.

(4) The second or binder course will be composed of clean, broken stone, thoroughly screened, not exceeding $1\frac{1}{4}$ inches in the largest dimensions, and No. 4 coal-tar distillate. The stone will be heated by passing through revolving heaters, and thoroughly mixed by machinery with the distillate in the proportion of 1 gallon of distillate to 1 cubic foot of stone.

(5) The binder will be hauled to the work, spread upon the base course at least 2 inches thick, and immediately rammed and rolled with hand and heavy steam rollers while in a hot and plastic condition.

(6) The wearing surface will be $1\frac{1}{2}$ inches thick when compacted, made of paving cement, composed of 25 per cent. of asphalt and 75 per cent. of coal-tar distillate, mixed with other materials, as follows: Clean, sharp sand will be mixed with pulverized stone of such dimensions as to pass through a $\frac{1}{4}$ -inch screen, in the proportion of two to one. To 21 cubic feet of the above-named mixture will be added 1 peck of dry hydraulic cement, 1 quart of flour of sulphur, and 2 quarts of air-slaked lime. To this mixture will be added 320 pounds of paving cement to compose the wearing surface.

(7) The material will be heated to about 250° Fahrenheit, the paving cement in kettles, the sand, stone, &c., in revolving heaters. They will be thoroughly mixed by approved machinery, and the mixture carried upon the work, where it will be spread upon the binder course 2 inches thick with hot iron rakes and other suitable appliances and immediately compacted with tamping-irons, hand and steam rollers in its hot and plastic state. The surface will be finished with a dusting of dry hydraulic cement rolled in.

(8) The pavement so constructed must be a solid mass 6 inches thick, and will be thoroughly rolled and cross rolled until it has become hard and solid.

(9) The relative proportions of the component materials will be changed upon the order of the Engineer Commissioner, as occasion shall require. The pavement must be equal in every respect to that laid on K street between Ninth and Eighteenth streets northwest.

Asphalt block pavement.

(1) The size of the blocks will be 4 by 5 by 12 inches, and a variation of one-fourth of an inch from these dimensions will be sufficient grounds for rejecting any block.

(2) The blocks will be composed of paving cement 8 to 12, crushed limestone 92 to 88.

The paving cement will be made from refined Trinidad or other acceptable asphaltum and heavy petroleum. The petroleum must be freed from all impurities and brought to a specific gravity of from 18° to 22° Beaumé, and a fire test of 250° Fahrenheit. The right is reserved to inspect the manufacture of the blocks at any time.

All bids must be accompanied by a specimen block of the size and quality described in these specifications, labeled with the name of the bidder and the locality of the factory; bids not accompanied by specimen blocks will not be accepted. The blocks will be tested on specific gravity and tensile and crushed strength, and all blocks furnished will be subject to test and approval.

(3) The space over which the pavement is to be laid will be excavated to the depth of 12 inches below the top line of the proposed pavement when fully rammed. Any objectionable or unsuitable material below the bed will be removed and the space filled with clean gravel or sand. Care must be taken in excavating to preserve the proper crown. All holes and inequalities will be filled with sand or gravel, such filling to be thoroughly compacted by rolling or ramming.

(4) Upon this foundation, as above, is to be laid a bed of fine bank gravel, to be screened from all pebbles measuring more than 1½ inches in their largest dimensions, 5 inches thick when compacted by rolling and ramming. Upon this will be laid a bed of fine, sharp sand, washed and dried, 2 inches in thickness, to serve as a bed for the blocks, which will be laid directly upon and imbedded in it with close joints. Special care will be observed to make the surface of this bed of sand exactly parallel to the surface of the pavement when complete. The blocks must be laid by the pavers standing or kneeling upon the blocks already laid, and not upon the bed of sand.

(5) The blocks are to be laid at right angles with the line of the street, with such crown as the Engineer Commissioner may direct, each course to be of blocks of a uniform width and depth, and so laid that all longitudinal joints shall be broken by a lap of at least 4 inches. Each course of blocks will be driven against the course preceding it by a heavy maul, in order to make the lateral joints as tight as possible, and the longitudinal points will be closed by pressing each corner in the direction of its length by a lever. When thus laid, the blocks will be immediately covered with clean, fine sand, entirely free from any loam or earthy matter, perfectly dry, and screened through a sieve or screen having not less than 20 meshes to the inch. The blocks will then be carefully rammed by placing a plank over several courses and ramming the plank with a heavy rammer. The ramming will be continued until the blocks reach a firm, unyielding bed and present a uniform surface, with proper grade and crown. Any lack of uniformity in the surface must be corrected by taking up and relaying the blocks. When the ramming is complete a sufficient amount of fine, dry sand, as above described, will be spread over the surface and swept or raked into the joints.

Laying granite blocks adjacent to curb and tracks.

(1) Where the pavement is laid adjacent to the tracks of a street railroad one row of selected granite paving blocks, which will be furnished by the District of Columbia, at the property yard, and must be hauled to street at the contractor's expense, will be laid next to the track, alternating as headers and stretchers toothing into the pavement, with a bituminous concrete foundation extending to the depth of the bottom of the cross-ties.

(2) The base of this foundation will be composed of clean, broken stone that will pass through a 2-inch ring, well rammed, and thoroughly coated with paving cement composed of No. 4 coal-tar distillate, in the proportion of about 1 gallon to each square yard of base.

(3) Upon this base will be laid a second or binder course, which will be composed of clean, broken stone, thoroughly screened, not exceeding $1\frac{1}{4}$ inches in the largest dimension, and No. 4 coal-tar distillate.

(4) The stone will be heated by passing through revolving heaters, and thoroughly mixed by machinery with the distillate, in the proportion of 1 gallon of distillate to 1 cubic foot of stone.

(5) The binder will be hauled to the line of work, spread upon the base in a layer not less than 1 inch in thickness.

(6) The blocks will be immediately laid and imbedded in the binder while it is still in a hot and plastic condition.

(7) The top of the blocks will be even with the surface of the tread of the rail, which shall conform to the grade of the street.

(8) The blocks will be laid before the wearing surface is laid upon the carriage-way, and carefully rammed to a firm bed. Care will be taken to fit them well up against the stringers of the railroad.

(9) The space back of the blocks will be filled to the surface of the base for the carriage-way pavement, with the binder course well rammed.

(10) Immediately after the wearing surface shall have been laid, clean, fine, hot gravel, not larger than three-fourths of an inch in dimensions, will be poured into the joints of the blocks until they become nearly filled.

(11) There will then be poured into the joints, at a temperature of 300° Fahrenheit, paving cement made of No. 6 coal-tar distillate, until the joints are completely filled flush with the surface of the pavement. Additional fine, hot gravel will then be poured along the joints, and will be consolidated by tapping with a light hammer. If found necessary, additional paving cement will be poured between the blocks until the joints are thoroughly filled.

(12) If considered advisable, a strip of granite block pavement will be laid in the place of the gutter, of such width as may be prescribed, and in accordance with the following specifications: The blocks will be furnished by the District, at the property yards, and must be hauled to the street at the contractor's expense. The pavement will be cut out for the necessary width, and the subsoil excavated to the depth of $12\frac{1}{2}$ inches below the surface of the pavement when fully rammed. Any spongy or vegetable material in the bed thus prepared will be removed, and the space filled with clean gravel or sand to a proper level, such filling to be thoroughly compacted by ramming.

(13) Upon this foundation is to be laid a bed of fine bank gravel, 4 inches in depth when compressed, screened from all pebbles measuring more than $1\frac{1}{2}$ inches in their largest dimensions, and thoroughly rammed. Upon this will be laid a bed of fine, sharp sand, washed and dried, 3

inches in thickness, to serve as a bed for the blocks, which will be laid directly upon and imbedded in it, with close joints. The stone blocks are to be laid at right angles with the line of the street; each course to be of blocks of a uniform width and depth, and so laid that all longitudinal joints shall be broken by a lap of at least 2 inches. The edge next the carriage-way will consist of alternate headers and stretchers toothing into the pavement. When thus laid, the blocks will be immediately covered with clean, fine, hot gravel, in proper quantities, raked until all the joints become filled therewith, and the blocks will then be carefully rammed to a firm, unyielding bed, with uniform surface and with proper grade. There will then be poured into the joints, at a temperature of 300° Fahrenheit, paving cement of proper consistency, to be obtained by the direct distillation of coal-tar. The cement required is ordinarily numbered 6 at the manufactory. It will be poured into the joints of the pavement until the sand beneath and the gravel between the blocks will absorb no more and the joints are filled flush with the upper surface of the pavement. Dry, hot gravel not larger than three-fourths of an inch in any dimension will then be poured along the joints, and will be consolidated by tapping with a light rammer. Not less than 3 gallons of paving cement to each square yard of pavement will be required; this quantity must be brought upon the ground, upon the line of the work, and whatever may remain after the completion of the work will be the property of the District of Columbia, and will be hauled to the Sixth street property yard, at the expense of the contractors. Any wastage of paving cement by pouring over the surface of the pavement instead of between the blocks will be estimated and deducted from the amount reported to have been used, and any such wastage of paving cement remaining upon the surface of the pavement must be covered with a sufficient quantity of fine dry gravel to absorb it.

(14) The Engineer Commissioner may substitute, in his discretion, such other materials as he may deem best for granite blocks, for which an equitable price will be allowed.

(15) Bidders are at liberty to submit for consideration proposals and specifications for any special or patented pavement which may be deemed suitable for roadways.

Specifications for laying macadam pavement.

(1) Macadam pavements will be 12½ inches thick when fully compressed, and will be laid in three courses, the two lower courses each being 6 inches thick when compressed and the top course one-half inch.

(2) The space over which the pavement is to be laid will be excavated to the depth of 12½ inches below the top line of the proposed new pavement when fully compressed. Should there be any spongy material or vegetable matter in the bed thus prepared, all such material will be removed and the space filled with clean gravel or sand. Care must be taken in excavating to preserve the proper crown parallel to the surface of the street when completed; all holes and inequalities to be filled to a proper level with sand or gravel only, such filling to be well and faithfully compacted by rolling or ramming, and the entire road-bed will be thoroughly compacted by rolling and ramming so as to present a smooth and regular surface.

(3) On this bed the metal for the first course will be spread in a uniform layer of such thickness as to give a depth of 6 inches when thoroughly compacted. This layer will then be compacted by rolling, and ramming in such places as the roller cannot reach; the roller will either

be a steam-roller or horse-roller, its weight being not less than 5,000 pounds, and its width such that the weight per inch of run will be not less than 125 pounds. The District will furnish, if desired, a suitable roller, weighing about 10,500 pounds, made of iron with grooves, and requiring five or six horses for its proper use according to grade. The rolling will be continued until the stone cease to sink under the roller or to creep in front of it; the amount of rolling will be not less than ten hours to each 1,000 yards of surface.

(4) The second course of metal will be spread on the first course in a uniform layer of the same depth as before, and after being thoroughly wet, either by hose or a sprinkling cart, will be rolled and rammed in precisely the same manner and to the same extent as the first course.

(5) The size of metal in the first and second courses will be such that it will pass through a ring $2\frac{1}{2}$ inches in diameter, *i. e.*, the largest dimension of any stone must not exceed $2\frac{1}{2}$ inches. Any stone larger than this will be absolutely rejected, and must be either removed from the street or rebroken to proper size by the contractor. The material for the top course will be small pebbles thoroughly screened from clay and earthy matter, and varying in size from one-eighth to three-fourths of an inch in their largest dimensions, or it may be composed of the finer particles of stone obtained by screening the stone for the lower courses. These particles of stone will be of the same size as the pebbles above mentioned. Stone dust will not be used for a top course.

(6) The material for the top course will be spread upon the second course in a uniform layer 1 inch in thickness, and, after being thoroughly wet by means of a hose or sprinkling cart, will be rolled and rammed in the same manner and to the same extent as the first and second courses.

(7) The stone for the first and second courses must be of a hard and compact texture and uniform grain. Blue rock (gneiss), trap, granite, flint (quartz), and the harder varieties of limestone will be accepted. Bidders will submit with their bids samples of the stone which they propose to furnish, and all stone which does not equal the sample in quality and size will be rejected. The stone must have on all sides a rough surface obtained by fracture. Water-worn pebbles and broken cobblestones will not be accepted. The stone preferred is the harder variety of compact gneiss found on certain portions of Rock Creek, Piney Branch, Broad Branch, and other streams north of the boundary. Disintegrated and weather-worn stones from the surface of the quarry will not be accepted. If desired, the stone can be obtained from the shafts of the new aqueduct at Champlain avenue, Rock Creek, and Foundry Branch. It will be furnished to the contractor at those points free of charge, and already broken to a size containing about 1 cubic foot.

APPENDIX No. 14.

SPECIFICATIONS FOR SEWERS.

Trenches.

(1) The ground will be excavated in open trenches to not more than the necessary width and depth, that portion formed for the invert of the sewer to be excavated to conform to the external form and dimensions of the same, should the nature of the ground so allow. If the

soil be unsuitable for a foundation it will be removed to such depth and width and in such manner as the Engineer Commissioner may direct, and other material deposited in its place, which will be paid for as extra work.

(2) All irregularities in the bottom or sides of the trench below the center of the sewer will be filled to the required form with hydraulic cement concrete, made as herein specified, at the expense of the contractor.

(3) Bracing and shoring will be used when necessary. The filling of the trench and removal of timber will be done in such manner as to prevent the slipping or caving of the sides as the work progresses. If ordered to be left in the trench, the bracing and shoring so left will be measured and paid for at a price to be determined by the Engineer Commissioner.

(4) Should the exigencies of the work so require, it will be carried on without intermission upon the order of the Engineer Commissioner.

(5) The excavations will be kept free from water during the construction of the work; no concrete or other work will be laid in water, and no allowance made for pumping or otherwise removing the water; all slides or caving of the sides of the trenches or cuts will be taken out and back-filled.

(6) The back-filling must be brought up evenly to the top of the trench in layers not exceeding 6 inches in depth, and thoroughly rammed.

When desirable, for the better compacting of the filling, water will be used under the direction of the inspector.

The contractor will be responsible for all after-settlement over the line of the trench, as hereinafter provided.

(7) The surface of the street or sidewalk must be left in as good condition as before the commencement of the work, suitable material being reserved for this purpose.

(8) The contractor will replace all pavements disturbed excepting sheet pavements, which will be relaid by the District. If, however, such pavements should be injured by the contractors outside the limits prescribed for the trenches, the cost of restoring such excess will be charged against the contractor and deducted from any amounts found due, and he will be required at his own expense to maintain the ground surface of the pavement over the line of trench with the best material available from the excavation, until such time as the pavement is relaid. The cost of subsequent repairs of all pavements (whether relaid in the first instance by the District or by the contractor), or of any other work made necessary within the period for which this work is guaranteed by after-settlement in the filling of the trenches, will be charged against the 10 per cent. retained and invested, as provided in paragraph 7 of the general stipulations hereto attached.

(9) The material from the trenches and that used in the construction of the work will be so deposited as not to endanger the work or unnecessarily obstruct public travel, and so that free access may be had at all times to all fire plugs and water gates in the vicinity of the work. The surplus earth, as hereinafter indicated, will be the property of the contractor and must be hauled away and disposed of by him.

(10) The cost of removing the surplus earth will be included in the price paid for the sewer.

Sewers.

(1) The sewers are to be constructed in strict conformity with the drawings furnished, and the lines and levels given by the duly authorized

assistant, and the directions given from time to time by the Engineer Commissioner or his agents. The work is subject to such modifications as may be necessary during its progress; and in no case will any work in excess of the plan and specifications be paid for unless ordered in writing by the Engineer Commissioner.

(2) All railroads, water, sewer, and gas pipes will be properly supported and protected during the construction of the work under or near them, so as not to interfere with or delay their use; all at the expense of the contractor.

(3) The connections with intercepted sewers and catch-basins will be made according to plans and directions, and the cost of said connections will be included in the price per foot for new sewers. The connections with new basins will be paid for at a separate price; the connection with sewers will generally be made with curves having a radius of not less than 30 feet.

The sewers in Rhode Island avenue, Fifth and Sixth streets northwest, East Capitol street, D street southwest, and Pennsylvania avenue southeast will be laid to take the places of sewers now laid in said streets, which sewers will be abandoned.

On these streets the new sewers will be laid between the old sewers and the curbs, excepting the sewers on Pennsylvania avenue, which will be laid between the old sewers and the buildings.

All existing house laterals must be properly connected with the new sewers, for which work a separate price will be paid. All pipe necessary for such connection will be furnished by the District at the property yard.

Whenever it is necessary to extend or relay any part of the house laterals to insure a proper connection, they must be laid and thoroughly bedded in concrete, particularly where said laterals cross the old sewers. The old sewers must be closed at each manhole, and wherever a house lateral crosses it, with brick and cement, or concrete, and the manholes filled with earth, thoroughly rammed, to the surface of the street or sidewalk. The manhole frames and covers are to be removed from the old sewers and used on the new sewers.

Brick-work.

(1) The best quality of whole new bricks, burned hard entirely through, free from injurious cracks, with true even faces, and with a crushing strength of not less than 5,000 pounds per square inch, will be used, and must be thoroughly wetted immediately before laying. Every brick is required to be laid in full mortar joints, on bottom sides and ends, which for each brick is to be performed by one operation. In no case is the joint to be made by working in mortar after the brick has been laid. Every second course will be laid with a line, and joints will not exceed three-eighths of an inch. The brick-work of the arches shall be properly bonded and keyed as directed by the Engineer Commissioner.

(2) Terra-cotta junction blocks will be built into the arch of the brick sewers, and Y branches laid in the pipe sewers at such places as are shown on the plan, or are indicated by the Engineer Commissioner. These will be furnished the contractor free of cost, and are to be built into the sewers, and the ends projecting from the concrete foundation closed with brick and cement by and at the expense of the contractor.

Manholes.

(1) Brick manholes will be constructed in the sewers at intervals of 150 to 200 feet. They are to be of form and dimensions shown on the drawings.

Manholes are to be fitted with cast-iron frames and covers, in dimensions, weight, and quality similar to those now used, and the drawings of which are on file in the office of the Engineer Commissioner.

(2) The iron is to be sound, free from imperfections, and thoroughly cleaned. Each manhole will be furnished with steps of wrought iron three-quarter inch in diameter, built into the brick-work as shown on drawings, conveniently arranged for access to sewer.

(3) Lateral sewer and receiving basin connections will be built into the manholes whenever required.

Receiving-basins.

(1) Receiving-basins will be built wherever shown on the plans, or ordered by the Engineer Commissioner. They will conform to the drawings, will be built with care, and will be made water-tight by plastering the interior with neat hydraulic cement one-half inch in thickness.

(2) The tops of the basins will be covered with granite or blue stone heads, set level with the sidewalk; the stones composing the tops will be rebated to receive a cast-iron cover similar to those now in use.

(3) Connections of basins with the sewers will be made with 12-inch or 15-inch pipes of terra-cotta, laid in hydraulic cement concrete, as required for the sewer pipes.

(4) An opening will be left in the wall opposite the sewer connection for the disposal of liquid sewage in cleaning the trap. This will be closed by an iron covering, to be furnished by the District. This covering will be put in place and securely fastened by the contractor.

Mortar.

(1) Mortar, wherever used in this work, will be composed of cement and sand, in the proportion of 300 pounds of cement and 2 barrels of loose sand, *thoroughly mixed* dry, and a sufficient quantity of water afterwards added to form a rather stiff paste; it will be used within an hour after mixing, and not at all if once set.

(2) Cement shall be delivered in barrels, and be of quality equal in every respect to the best brands of Potomac and Rosendale cements, which have been in use on the public works of the District of Columbia in past years, and must be satisfactory in all respects to the Engineer Commissioner, and pass such tests as he may prescribe.

(3) Sand used shall be clean, sharp, free from loam, vegetable matter, or other dirt.

(4) Water used shall be fresh and clean, free from earth, dirt, or sewage.

(5) Tight mortar boxes shall be provided by the contractor, and no mortar shall be made excepting in such boxes.

(6) The proportions given are intended to form a mortar in which every particle of sand shall be enveloped by the cement, and this result must be attained to the satisfaction of the Engineer Commissioner, and under his direction.

(7) The thorough mixing and incorporation of all materials will be insisted upon, preferably by machine labor; but if done by hand labor the dry cement and sand will be turned over and mixed with shovels by skilled workmen not less than six times before the water is added. After adding the water, the paste will again be turned over and mixed with shovels by skilled workmen not less than three times before it is used.

Concrete.

(1) Concrete will be composed of mortar proportioned and mixed as before described, to which will be added broken stone in such proportion that the resultant mass will contain for every 300 pounds of cement 2 barrels of loose dry sand and 5 barrels of broken stone or hard brick.

(2) The broken stone or brick will be thoroughly cleaned from all dirt, and will be screened whenever ordered by the Engineer Commissioner or his agents. It will be broken to a size not greater than 2 inches in any direction.

(3) The stone or brick will be added immediately after mixing the mortar, being first completely drenched with water, but containing no loose water in the heap.

The whole mass shall be thoroughly turned over and mixed until every particle of broken stone is completely covered with mortar, using only sufficient water to insure the proper incorporation of the ingredients.

(4) The contractors shall furnish the inspectors with proper means and facilities for weighing the cement in barrels, and the barrels after being emptied, and for measuring the sand, broken bricks, and broken stone.

(5) All quantities of work and material to be paid for will be measured and determined by the Engineer Commissioner and his assistants, according to the specifications and the plans and working lines which may be given.

(6) All material furnished and all work done which, in the opinion of the Engineer Commissioner, shall not be in accordance with these specifications, shall be removed within twenty-four hours after written notice from the Engineer Commissioner, by and at the expense of the contractor, or, in case of his failure to do so, it will be removed by the Engineer Commissioner, and the cost will be charged to the contractor and deducted from the amount due or which may become due the contractor.

(7) Material to be furnished by the District (consisting of sewer pipe, branches, and junction blocks) will be delivered to the contractor on the wharf or at one of the property yards of the District, and will be hauled to the work by the contractor. It will be considered as a cash payment in addition to the contract rates, and 10 per cent. of its value will be retained, as provided by law. (See paragraph 5 of the general stipulations hereto appended.)

(8) The contractor will be required to refill trenches, remove surplus material or supplies, and restore the streets to their original condition with all possible promptness; also to maintain suitable bridges over trenches at street crossings in such manner as to accommodate travel on foot or by vehicle, all to the satisfaction of the Engineer Commissioner and as he shall direct. All lights necessary for properly lighting the trenches or other obstructions to travel must be maintained at the expense and risk of the contractor.

APPENDIX No. 15.

Miscellaneous contracts.

| Date. | Number of contract. | Name of contractor. | Nature of work. | Cost. |
|------------------|---------------------|-------------------------------------|--|-------------|
| 1879. Oct. 31 | 239 | F. M. Draney | Remove and transport night soil. .... | ..... |
| 1881. June 4 | 330 | F. M. Draney | Remove garbage for the period of five years from July 1, 1881. | \$15,000 00 |
| 1885. Apr. 23 | 612 | Virginia Slate Granite Company. | Furnish 100,000 granite paving blocks... | 4,100 00 |
| Apr. 28 | 613 | John Booth..... | Furnish 100,000 granite paving blocks... | 4,059 80 |
| Apr. 30 | 614 | New York and Maine Granite Company. | Furnish 300,000 granite paving blocks... | 12,818 77 |
| May 14 | 617 | C. Thomas | Construct and complete magazine building, No. 1, for workhouse for females at the Washington Asylum. | 14,800 00 |
| May 14 | 618 | C. Thomas..... | Construct a two-story and basement brick school building on the south side of Third or P street, between Market and High streets, West Washington. | 24,530 37 |
| June 18 | 625 | L. P. Wright & Son..... | Sprinkling, sweeping, and cleaning paved carriage-ways in the cities of Washington and Georgetown for one year ending June 30, 1885. | 35,551 20 |
| June 11 | 626 | Frank Baldwin..... | Construct a three-room school building and stair halls on each side of Stevens school building, on Twenty-first street, between K and L streets northwest. | 21,725 20 |
| June 25 | 630 | William Henderson..... | Construct a brick building for National Association for Destitute Colored Women and Children. | 17,478 00 |
| June 29 | 632 | Murphy & Coffey..... | Sprinkling, sweeping, and cleaning paved alleys. | 7,801 16 |
| June 26 | 633 | I. D. Smead..... | Furnish and set heating and ventilating apparatus for school building on P street, between Thirty-third and Thirty-fourth streets northwest. | ..... |
| Aug. 10 | 665 | C. Thomas..... | Construct a brick police station on New Jersey avenue, between D and E streets northwest. | 11,082 35 |
| Aug. 29 | 666 | Washington Gas-Light Company. | Furnish illuminating gas in Washington, and light, clean, and keep clean gas lamps on streets. | 89,613 64 |
| Aug. 28 | 667 | Georgetown Gas-Light Company. | Furnish illuminating gas in Georgetown, and light, clean, and keep clean gas lamps on streets. | 9,058 85 |
| 1886. Apr. 5 | 669 | Camden Iron Works..... | Furnish cast-iron water pipe ..... | ..... |
| June 21 | 675 | H. P. Gilbert..... | Furnish and deliver upon the wharf at Benning's Bridge, on the Eastern Branch, 125 cubic yards, more or less, of building stone. | 280 00 |

APPENDIX No. 16.

SEWER CONTRACTS.

| Date. | No. of contract. | Name of contractor. | Locality. | Description of work. | Number of feet. | Cost per foot. | Contract and extra work. | Material. | Total. | Remarks. |
|------------------|------------------|---------------------|--|--|-----------------|----------------|--------------------------|------------|--------------|---------------------------------|
| 1884. Sept. 1 | 591 | Thomas McCann | Boundary street, from Seventh street east to Eighth street west. | Construct sewer 15 by 17 feet inside diameter. Construct sewer 10 feet inside diameter. | | | \$112,287 89 | \$5,907 81 | \$118,195 70 | Includes all previous payments. |
| | | | | Construct sewer 6.5 by 8.35 inside diameter. | ..... | ..... | 54,424 52 | 5,973 24 | 60,397 76 | |
| | | | | Construct sewer 5.5 by 8.25 inside diameter. | ..... | ..... | 42,549 60 | 4,685 14 | 47,234 74 | |
| Sept. 20 | 599 | H. L. Crawford | Q street northwest, from Seventeenth street to Twenty-second street. | Construct sewer 4 by 6 feet inside diameter. | 2,982.00 | \$10 40 | 49,319 70 | 2,583 98 | 51,903 68 | |
| Oct. 1 | 601 | Thomas McCann | Seventeenth street northwest, from Q street to Monroe street. |do..... | 2,335.00 | 6 00 | 13,437 45 | | | Complete. |
| | | | Eighth street northwest from Monroe street to S street. |do..... | | | | | | |
| | | | Fifteenth street to Seventeenth street. |do..... | 1,264.60 | 6 00 | 8,830 30 | 2,261 70 | 30,046 04 | |
| | | | B street northwest, from Seventeenth street to Eighteenth street. | Construct sewer 5.25 by 7.87 side diameter. | 410.40 | 7 25 | 5,416 59 | | | |
| | | | O street northwest, from Boundary street to First street. | Construct sewer 10 feet inside diameter. | 2,022.68 | 15 49 | 28,024 67 | 4,446 86 | 32,471 53 | |
| 1885. June 27 | 631 | Owen O'Hare | B street northeast, from Fifth street to Sixth street. | Laying 12-inch pipe sewer | 312.00 | 85 | 278 52 | | | |
| | | | E street northeast, from Second street to Third street. |do..... | 344.00 | 85 | 294 64 | | | |
| | | | F street northeast, from H street to I street. |do..... | 332.50 | 85 | 297 14 | | | |
| | | | H street northeast, from Third street to Fourth street. |do..... | 335.50 | 85 | 279 26 | | | |
| | | | I street northeast, from Tenth street to Eleventh street. |do..... | 156.00 | 85 | 127 61 | | | |
| | | | East Capital street, from First street to Second street. |do..... | 605.00 | 85 | 514 99 | | | |

SEWER CONTRACTS—Continued.

| Date. | No. of con- tract. | Name of con- tractor. | Locality. | Description of work. | Number of feet. | Cost per foot. | Contract and extra work. | Material. | Total. | Remarks. |
|------------------|-----------------------|--------------------------|---|--|--|--|--|---|--|--|
| 1885. June 27 | 621 | Owen O'Hare... | G street southeast, from Fifth street to Sixth street. L street northwest, from First street to alley east of First street. Alley, square 620, Pierce and First streets and alley. Virginia avenue southwest, from Delaware avenue to First street. G street southeast, from Third street to Fifth street. D street southwest, from First street to Second street. D street southwest, from Sixth street to Seventh street. L street northwest, from alley east of First street running east. | Laying 15-inch pipe sewer. .....do..... .....do..... .....do..... .....do..... Laying 18-inch pipe sewer..... .....do..... .....do..... Laying 24-inch pipe sewer..... | 309.00 174.00 494.80 367.00 720.00 373.00 453.70 147.00 | \$1 13 1 70 | \$348 05 185 19 520 58 320 27 877 53 360 89 547 84 260 76 | \$4,661 04 | \$24,109 17 | Complete. |

APPENDIX NO. 17.

Supply contracts.

| Date. | Number of contract. | Name of contractor. | Nature of work. |
|---------|---------------------|-------------------------------|--|
| 1885. | | | |
| June 18 | 627 | Potomac Terra Cotta Company.. | Furnish terra-cotta material. |
| June 22 | 629 | Akron Sewer Pipe Agency..... | Do. |
| July 8 | 634 | J. Lansburgh..... | Furnish and deliver furniture for one year, ending June 30, 1886. |
| | 635 | R. Goldschmidt..... | Do. |
| | 636 | J. B. Bryan & Bro..... | Furnish and deliver groceries for one year, ending June 30, 1886. |
| | 637 | Barbour & Hamilton..... | Do. |
| | 638 | William Ballantyne & Son..... | Furnish and deliver stationery for one year, ending June 30, 1886. |
| | 639 | Judd & Detweiler..... | Furnish and deliver blank forms and printing for one year, ending June 30, 1886. |
| 10 | 640 | W. M. Galt & Co..... | Furnish and deliver groceries for one year, ending June 30, 1886. |
| 10 | 641 | B. Bailey..... | Furnish and deliver hardware for one year, ending June 30, 1886. |
| 10 | 642 | R. Leitch & Son..... | Furnish and deliver plumbers' material for one year, ending June 30, 1886. |
| 10 | 643 | Virginia Brick Company..... | Furnish and deliver brick for one year, ending June 30, 1886. |
| 10 | 644 | Schiller & Stevens..... | Furnish and deliver drugs for one year, ending June 30, 1886. |
| 11 | 645 | J. C. Ergood & Co..... | Furnish and deliver bacon and ham for one year, ending June 30, 1886. |
| 11 | 646 |do..... | Furnish and deliver groceries for one year, ending June 30, 1886. |
| 13 | 647 | W. J. C. Dulaney & Co..... | Furnish and deliver school-books for one year, ending June 30, 1886. |
| 13 | 648 | J. T. Varnell..... | Furnish and deliver fresh meat and corned beef for one year, ending June 30, 1886. |
| 13 | 649 | R. Cohn..... | Furnish and deliver boots and shoes for one year, ending June 30, 1886. |
| 14 | 650 | W. E. Hodge..... | Furnish and deliver fuel for one year, ending June 30, 1886. |
| 14 | 651 | S. Emery..... | Furnish and deliver granite stone curb, &c., for one year, ending June 30, 1886. |
| 14 | 652 | G. J. Johnson..... | Furnish and deliver dry goods for one year, ending June 30, 1886. |
| 15 | 653 | W. H. Diver..... | Furnish and deliver miscellaneous castings for one year, ending June 30, 1886. |
| 15 | 654 | J. M. Wheatley..... | Furnish and deliver lime and cement for one year, ending June 30, 1886. |
| 15 | 655 | E. G. Wheeler..... | Furnish and deliver telegraph and telephone supplies for one year, ending June 30, 1886. |
| 15 | 656 | R. C. Hewitt..... | Furnish and deliver forage for one year, ending June 30, 1886. |
| 16 | 657 | J. T. Springman & Son..... | Furnish and deliver lamp-posts for one year, ending June 30, 1886. |
| 13 | 659 | Lansburgh & Bro..... | Furnish and deliver dry goods for one year, ending June 30, 1886. |
| 21 | 660 | W. H. Butler..... | Furnish and deliver paints, oils, &c., for one year, ending June 30, 1886. |
| 23 | 661 | Acker & Co..... | Furnish and deliver blue stone construction material for one year, ending June 30, 1886. |
| 21 | 662 | Johnson Bros..... | Furnish and deliver fuel for one year, ending June 30, 1886. |
| 28 | 663 | Royce & Marean..... | Furnish and deliver telegraph and telephone supplies for one year, ending June 30, 1886. |
| 28 | 664 | G. A. Shehan..... | Furnish and deliver lumber for one year, ending June 30, 1886. |
| 15 | 668 | H. I. Gregory..... | Furnish and deliver tinware and street lamps for one year, ending June 30, 1886. |
| 1886. | | | |
| Apr. 19 | 671 | Potomac Terra Cotta Company.. | Furnish and deliver terra cotta material for one year, ending June 30, 1886. |
| | 672 | A. Lamond..... | Do. |
| 28 | 673 | Viney & Baker..... | Furnish and deliver water-gates for one year, ending June 30, 1886. |

APPENDIX NO. 18.

Parent contracts.

ASPHALTUM PAVEMENTS.

| Date. | No. of con- tract. | Name of contractor. | Locality. | Square yards. | Cost per square yard. | Contract work. | Material. | Total cost. | Remarks. |
|-------------------|-----------------------|-------------------------------------|--|----------------------------------|-----------------------------|-----------------------------------|-------------------------|-----------------------------------|--|
| 1885. Apr. 23. | 611 | H. L. Cranford | New Hampshire avenue, from P street to Q street. | 2,537.73 | \$2 26 | \$6,021 59 | \$7 70 | \$6,029 29 | |
| 30. | 615 | Barbor Asphalt Pav- ing Company. | B street northeast, from Fourth street to Sixth street, from Vir- ginia street southeast, from P street to Q street, from Twen- ty-second street to Thirty-second street. | 2,252.60 2,302.78 4,820.10 | 2 25 2 25 2 25 | 5,437 60 6,635 04 11,443 01 | 332 01 9 94 | 5,437 60 6,967 05 11,452 95 | |
| | | | Fifteenth street northwest, from S street to U street. | 3,768.00 | 2 25 | 9,432 35 | 35 41 | 9,467 76 | |
| | | | Twenty-second street, from K street to M street. | 2,781.76 | 2 25 | 6,712 46 | 7 82 | 6,720 28 | |
| | | | Fifth street northwest, from D street to G street. | 3,800.41 | 2 25 | 11,592 33 | 605 48 | 12,257 81 | 303.10 square yards laid by railroad company in addition. |
| | | | Sixth street northwest, from Mis- souri avenue to Louisiana ave- nue. | 4,992.53 | 2 25 | 14,037 29 | 843 58 | 14,880 87 | 85.80 square yards laid by railroad company in addition. |
| | | | Tenth street northwest, from D street to E street. | 1,544.50 | 2 25 | 4,929 69 | 632 79 | 5,562 48 | |
| | | | I street northwest, from Eighth street to Ninth street. | 755.41 | 2 25 | 2,357 80 | 154 91 | 2,412 71 | |
| | | | C street northwest, from Four- and-a-half street to Seventh street. | 4,603.62 | 2 25 | 14,186 48 | 1,716 29 | 15,902 77 | |
| 1886. Apr. 9 | 670 | H. L. Cranford | I street northwest, from Tenth street to Eleventh street. | 713.59 | 2 25 | 2,385 10 | 67 87 | 2,352 96 | |
| | | | | 34,948.03 | ..... | 94,970 74 | 4,473 80 | 99,444 54 | |

AMOUNT LAID BY RAILROAD COMPANY.

| | | | | | | | | | |
|----------------|-----|--------------------------------|---|--------|-------|-------|-------|-------|-----------------------|
| 1886 Apr. 9 | 615 | Metropolitan Railroad Company. | Fifth street northwest, from D street to F street. | 383.10 | ..... | ..... | ..... | ..... | Work done by company. |
| | 615 |do..... | Sixth street northwest, from Missouri avenue to B street. | 85.80 | ..... | ..... | ..... | ..... | Do. |
| | | | | 478.90 | ..... | ..... | ..... | ..... |  |

ASPHALT BLOCK PAVEMENTS.

| | | | | | | | | | |
|-----------------|-----|--------------|--|-----------|--------|-------------|---------|-------------|--|
| 1885 Apr. 22 | 610 | P. Maloney | Sixth street southeast, from Pennsylvania avenue to East Capitol street. | 5,948.90 | \$2 10 | \$13,786 86 | ..... | \$13,786 86 | |
| | | | Fifth street northeast, from East Capitol street to Maryland avenue. | 4,876.43 | 2 10 | 12,095 38 | \$35 60 | 12,130 98 | |
| | | | Sixth street northeast, from East Capitol street to Maryland avenue. | 4,626.32 | 2 10 | 10,799 86 | ..... | 10,799 86 | |
| | | | Tenth street southwest, from B street to Maryland avenue. | 2,410.69 | 2 10 | 5,543 79 | ..... | 5,543 79 | |
| | | | C street southwest, from Ninth street to Twelfth street. | 3,253.11 | 2 10 | 7,679 93 | ..... | 7,679 93 | |
| | | | Eighteenth street northwest, from K street to L street. | 1,430.80 | 2 10 | 3,285 68 | ..... | 3,285 68 | |
| | | | Twenty-third street northwest from K street to M street. | 2,386.81 | 2 10 | 5,412 42 | 14 57 | 5,426 99 | |
| May 13 | 616 |do..... | A street southeast, from Third street to Sixth street. | 3,317.21 | 2 10 | 7,873 91 | 45 04 | 7,918 95 | |
| | | | | 28,250.27 | | 66,477 63 | 95 21 | 66,572 84 | |

GRANITE BLOCK PAVEMENTS.

| | | | | | | | | | |
|----------------|-----|---------------------|--|-------------------------|-------------|-------------------------|------------|------------|---|
| 1885 May 21 | 620 | Mohler & White..... | Nineteenth street, from K street to M street. | 3,729.69 | \$0 73 | \$3,006 06 | \$6,195 68 | \$9,201 74 | Granite blocks furnished by District of Columbia; \$141.61 deducted for deficiency in paving cement. \$7.26 deducted for deficiency in paving cement. \$52.04 deducted for deficiency in paving cement. |
| | | | Fourteenth street, from Pennsylvania avenue to F street. | 1,734.20 | 71 | 2,434 47 | 3,604 57 | 6,039 04 | |
| | | | Thirty-first street, from P street to U street. | { 5,116.73 1,892.22* | 73 2 20* | { 9,383 91 14,824 44 | 8,215 06 | 17,598 97 | |
| | | | | 10,580.62 | ..... | 14,824 44 | 18,015 31 | 32,839 75 | |

*Asphalt pavement.

Parent contracts—Continued.
GRADING AND REGULATING.

| Date. | No. of contract. | Name of contractor. | Locality. | Square yards. | Cost per square yard. | Contract work. | Material. | Total cost. | Remarks. |
|-----------------|------------------|---------------------|--|------------------------------------|-----------------------|------------------------------------|------------------------------------|-------------------------------------|--|
| 1885. May 20 | 621 | Andrew Gleason | Eighth street southwest, from C street to Water street. New Jersey avenue, from M street to Boundary. Vermont avenue, from R street to J street. | 6,055.95 11,838.40 4,583.57* | \$0 10 10 40* | \$3,929 34 6,921 37 4,730 24 | \$2,903 38 3,344 44 1,220 42 | \$6,832 72 10,265 81 5,950 66 | \$181.11 paid for by railroad company in addition. |
| June 1 | 622 | Michael Shea | E street southeast, from Third street to Eleventh street. | 9,501.32* | 58* | 11,894 92 | 3,204 63 | 15,088 55 | \$16 deducted for 4 days' inspection overtime. |
| June 1 | 623 | John Cadmore | G street southeast, from Third street to Eleventh street. | 8,228.56* | 58* | 11,498 56 | 5,016 66 | 16,271 22 | \$244 deducted for overtime and inspection. |
| 13 | 624 | J. H. Murphy | South Carolina avenue, from Third and Fourth streets to Third and Eleventh streets. | 7,150.95 | 10 | 4,412 33 | 2,931 70 | 7,344 03 | |
| | Order | John Miller | Fenton Place northeast. | ..... | ..... | ..... | ..... | 104 47 | Grading only, at 10 cents per cubic yard. |
| | Order | M. Talty | Twenty-fifth street, from M street to N street. | ..... | ..... | ..... | ..... | 209 00 | Do. |
| | Order | S. Talty | C street southwest, from First street to Delaware avenue. | ..... | ..... | ..... | ..... | 73 30 | |
| | Order | do | E street southwest, from South Capitol street to Delaware avenue. | ..... | ..... | ..... | ..... | 69 40 | |
| | Order | W. B. Moses | O street northwest, from Twenty-second street to Rock Creek. | ..... | ..... | ..... | ..... | 176 81 | Grading only, at 5 cents per cubic yard. |
| | Order | M. Shea | Various. | ..... | ..... | ..... | ..... | 433 10 | |
| | | | | 48,728.75 | | 43,346 76 | 18,621 23 | 62,814 97 | |

REPAIRS TO BITUMINOUS CONCRETE PAVEMENTS.

| Date. | No. of contract. | Name of contractor. | Locality. | Square yards. | Cost per square yard. | Contract work. | Material. | Total cost. | Remarks. |
|------------------|------------------|---------------------|--|---------------|-----------------------|----------------|-----------|-------------|--|
| 1885. June 18 | 628 | H. L. Cranford | Iowa Circle, east side. | 2,519.85 | \$1 47 | ..... | ..... | \$4,966 82 | Includes lease, binder, and incidental and extra work. |
| | | | Ninth street northwest, from Massachusetts avenue to N street. | 4,343.81 | 1 47 | ..... | ..... | 6,624 72 | Do. |
| | | | Pierce Place. | 2,205.24 | 1 47 | ..... | ..... | 3,548 56 | Do. |
| | | | G street northwest, from Ninth street to Tenth street. | 2,294.15 | 1 47 | ..... | ..... | 3,508 93 | Do. |

| | | | | | |
|---|----------|------|-------|----------|-----|
| Q street northwest, from Fifteenth street to Sixteenth street. | 2,127.45 | 1 47 | ..... | 3,287 34 | Do. |
| Twelfth street northwest, from Pennsylvania avenue to E street. | 766.24 | 1 47 | ..... | 1,130 07 | Do. |
| H street northwest, from Thirteenth street to E street. | 2,503.08 | 1 47 | ..... | 3,884 57 | Do. |
| M street northwest, from Twelfth street to New Hampshire avenue. | 851.20 | 1 47 | ..... | 1,392 38 | Do. |
| Seventeenth street (east side) northwest, from H street to I street. | 612.51 | 1 47 | ..... | 1,133 04 | Do. |
| Pennsylvania avenue northwest, from First street to Sixth street. | 401.57 | 1 47 | ..... | 590 30 | Do. |
| Pennsylvania avenue northwest, from Sixth street to Fifteenth street. | 538.70 | 1 47 | ..... | 791 88 | Do. |
| Fifteenth street (west side) northwest from Pennsylvania avenue to New York avenue. | 621.62 | 105 | ..... | 652 92 | Do. |
| Thirteenth street northwest, from B street to Pennsylvania ave. | 340.70 | 105 | ..... | 436 01 | Do. |
| De Sales street northwest, from Seventeenth street to Connecticut avenue. | 130.76 | 147 | ..... | 288 60 | Do. |
| G street northwest, from Fifth street to Seventh street. | 200.50 | 1 47 | ..... | 289 03 | Do. |
| G street northwest, from Fifth street to New Jersey avenue. | 147.97 | 1 05 | ..... | 158 00 | Do. |
| G street northwest, from Eleventh street to Fifteenth street. | 295.54 | 1 47 | ..... | 369 08 | Do. |
| G street northwest, from Seventeenth street to I twenty-second street. | 270.05 | 1 05 | ..... | 295 64 | Do. |
| E street northwest, from Fifth street to Eleventh street. | 394.51 | 1 47 | ..... | 579 93 | Do. |
| K street northwest, from Sixth street to Seventh street. | 401.37 | 1 05 | ..... | 449 91 | Do. |
| Scott Circle..... | 557.64 | 1 47 | ..... | 678 90 | Do. |
| Fifteenth street northwest, from S street to Rhode Island avenue. | 243.56 | 1 05 | ..... | 287 26 | Do. |
| Seventeenth street northwest, from B street to F street. | 551.68 | 1 05 | ..... | 679 15 | Do. |
| First street northeast, from B street to Pennsylvania avenue. | 449.16 | 1 05 | ..... | 540 06 | Do. |
| O street northwest, from Fourth street to Tenth street. | 478.12 | 1 05 | ..... | 536 18 | Do. |
| East Capitol street, from First street to Ninth street. | 75.32 | 1 47 | ..... | 110 72 | Do. |
| Fifth street northwest, from G street to L street. | 239.18 | 1 05 | ..... | 291 89 | Do. |

* Macadam.

Pavement contracts—Continued.

REPAIRS TO BITUMINOUS CONCRETE PAVEMENTS—Continued.

| Date. | No. of con- tract. | Name of contractor. | Locality. | Square yards. | Cost per square yard. | Contract work. | Material. | Total cost. | Remarks. |
|-------|-----------------------|---------------------|---|------------------|-----------------------------|-------------------|-----------|-------------|--|
| | | | Connecticut avenue, from Dupont Circle to M street. | 108.34 | \$1 05 | ..... | ..... | \$129 52 | Includes base, binder, and incidental and extra work. |
| | | | Pennsylvania avenue, from Eight- eenth street to Twenty-third street. | 315.13 | 1 05 | ..... | ..... | 364 25 | Do. |
| | | | New York avenue, from Ninth street to Fifteenth street. | 643.88 | 1 05 | ..... | ..... | 716 41 | Do. |
| | | | Elgin street northwest, from G street to K street. | 97.42 | 1 05 | ..... | ..... | 103 99 | Do. |
| | | | H street northwest, from Tenth street to Fourteenth street. | 87.84 | 1 05 | ..... | ..... | 107 21 | Do. |
| | | | Various..... | 6,967.85 |  | ..... | ..... | 8,721 54 | |
| | | | | 32,812.14 |  | ..... | ..... | 47,734 81 | |

Work done by railroad companies.

| Con- tract | Railroad companies. | Locality. | Character of work. | Square yards. | Cost. |
|---------------|---|---|---------------------------------|------------------|---------|
| 628 | Baltimore and Ohio | H street northeast, corner Delaware avenue. | Repair to asphalt. | 8 46 | \$15 42 |
| 621 | Capitol, O Street and South Washington. | New Jersey avenue, from M street to Boundary street. | Graveling | 181 10 | 116 11 |
| 628 | do | O street, from Fourth street to Ninth street. | Repairs to concrete. | 97 60 | 116 18 |
| 628 | do | Pennsylvania avenue, at E and Fourteenth streets. | Repairs to asphalt. | 22 16 | 32 57 |
| 628 | do | F street northwest, from First street to P street. | Repairs to concrete. | 1 58 | 1 66 |
| 628 | do | Fourth street northwest, from G street to New York avenue. | do | 17 09 | 20 57 |
| 628 | do | C street southwest, at Thirteenth street. | do | 90 18 | 157 81 |
| 628 | do | Eleventh street northwest, at K street. | do | 1 10 | 1 15 |
| 628 | do | Eleventh street northwest, at New York avenue. | do | 1 49 | 1 57 |
| 628 | do | Eleventh street northwest, at L street. | do | 1 83 | 1 91 |
| 628 | do | Eleventh street northwest, at H street. | do | 8 33 | 8 38 |
| 628 | do | G street northwest, from Fourth street to New Jersey avenue. | do | 21 29 | 24 98 |
| 628 | do | Eleventh street northwest, from G street to L street. | do | 142 39 | 167 26 |
| 628 | do | Ohio avenue, at Thirteenth street. | do | 2 75 | 4 04 |
| 628 | Columbia | K street northwest, from Seventh street to Ninth street. | do | 1 61 | 1 69 |
| 628 | do | New York avenue northwest, from Ninth to Fifteenth street. | do | 12 91 | 13 55 |
| 628 | do | Intersection northwest, from Twelfth street to New York avenue. | do | 5 17 | 5 43 |
| 628 | do | Ninth street northwest, at Pennsylvania avenue. | Repairs to asphalt | 20 41 | 30 01 |
| 628 | Metropolitan | H street northwest, at Vermont avenue | do | 1 20 | 1 76 |
| 628 | do | F street northwest, from Seventh street to Tenth street. | do | 30 25 | 44 47 |
| 628 | do | Seventeenth street northwest, from P street to New York avenue. | Repairs to concrete. | 30 61 | 32 14 |
| 628 | do | Seventeenth street northwest, from Pennsylvania avenue to H street. | do | .75 | 73 |
| 628 | do | New Jersey avenue northwest, at C street. | do | 8 69 | 9 13 |
| 628 | do | First street northeast, at East Capitol street. | do | 5 98 | 6 28 |
| 628 | do | Ninth street northwest, from M street to P street. | do | 18 80 | 19 74 |
| 628 | do | Fifth street northwest, from D street to F street. | Laying granite blocks | 393 10 | |
| 628 | do | Sixth street northwest, from Missouri avenue to B street*. | do | 85 80 | 64 |
| 628 | do | Thirteenth street northwest, at F street. | Repairs to concrete | .61 | |
| 628 | do | Dupont Circle. | do | 15 37 | 16 14 |
| 628 | do | Sixth street northwest, at F street | do | 3 94 | 5 79 |
| 628 | do | Seventeenth street northwest, at H street. | Repairs to asphalt. | 8 15 | 11 99 |
| 628 | do | Fourteenth street northwest, from New York avenue to H street. | Repairs to concrete and asphalt | 19 74 | 21 07 |
| 628 | do | Pennsylvania avenue northwest, at Ninth street. | Repairs to asphalt. | 6 13 | 9 01 |
| 628 | do | Approach to P street bridge | Repairs to concrete. | 1 73 | 1 82 |
| 628 | Washington and Georgetown. | Pennsylvania avenue, from First street to Fifteenth street | Repairs to asphalt. | 84 24 | 123 83 |
| 628 | do | New Jersey avenue, from B street to C street. | Repairs to concrete. | 4 52 | 4 74 |
| 628 | do | Fourteenth street, from H street to Boundar street. | Repairs to asphalt. | 13 70 | 20 14 |
| 628 | do | Pennsylvania avenue, from Twenty-second to Twenty-sixth street | Repairs to concrete. | 12 36 | 12 88 |
| 628 | do | Fourteenth street, around Thomas Circle. | Repairs to concrete. | 3 42 | 5 03 |
| 628 | do | Pennsylvania avenue, at Seventh street. | do | .27 | .40 |
| 628 | do | Pennsylvania avenue, at Fourteenth street | do | .67 | .98 |
| | | | | 1,387.52 | 971.88 |

* Work done by railroad company.

APPENDIX NO. 19.

List of inspectors.

| Number. | Name. | Number of days. | Compensation. | | Amount paid. | Under contracts— | Paid from appropriation. |
|---------|---------------------|-----------------|---------------|------------|--------------|-----------------------------|--------------------------|
| | | | Per diem. | Per annum. | | | |
| 1 | G. W. Scharf | 272 | \$5 00 | ..... | \$1,360 00 | No. 623 | |
| 2 | H. R. Ingham | 41 | 5 00 | ..... | 205 00 | No. 623 | |
| 3 | William Brown | 171 | 4 50 | ..... | 769 50 | Nos. 611, 615, 619 | |
| 4 | W. H. Callahan | 188 | 4 50 | ..... | 846 00 | No. 610, 612, 613, 614, 616 | |
| 5 | A. Jordan | 93 | 4 00 | ..... | 372 00 | No. 620 | |
| 6 | E. Y. Beggs | 79 | 5 00 | ..... | 395 00 | Nos. 611, 915, 619 | |
| 7 | J. T. Postlethwaite | 26 | 4 00 | ..... | 104 00 | No. 622 | |
| 8 | E. C. Manning | 18 | 4 00 | ..... | 72 00 | No. 621 | |
| 9 | J. J. Power | 71 | 4 00 | ..... | 284 00 | Nos. 611, 615, 619 | |
| 10 | J. P. Dillon | 62 | 3 00 | ..... | 186 00 | Nos. 626, 624 | |
| 11 | J. P. Dennis | 104 | 4 00 | ..... | 416 00 | No. 621 | |
| 12 | J. F. Chesley | 59 | 4 00 | ..... | 236 00 | No. 624 | |
| 13 | J. H. Newman | 27 | 3 00 | ..... | 81 00 | No. 624 | |
| 14 | William Beckett | 107 | 4 00 | ..... | 428 00 | No. 623 | |
| 15 | J. T. Johns | 27 | 3 00 | ..... | 81 00 | No. 622 | |
| 16 | N. E. Thompson | 70 | 3 00 | ..... | 210 00 | No. 622 | |
| 17 | J. F. Russell | 25 | 2 00 | ..... | 100 00 | Nos. 621, 623 | |
| 18 | C. F. Little | 148 | 2 00 | ..... | 592 00 | No. 674 | |
| 19 | E. Harper | 52 | 2 00 | ..... | 208 00 | No. 631 | |
| 20 | W. L. Hinds | ..... | ..... | \$1,200 00 | 1,200 00 | Nos. 621, 623 | |
| 21 | G. H. Hughes | 250 | 2 50 | ..... | 1,080 00 | No. 632 | |
| | Total | ..... | ..... | ..... | 9,747 00 | No. 632 | |

List of inspectors—Continued

| Name. | Services rendered. | | Compensation. | | | Amount paid. | Under contracts— | Paid from appropriation for— |
|----------------|--------------------|---------|---------------|------------|------------|--------------|--------------------|--|
| | Days. | Months. | Per diem. | Per month. | Per annum. | | | |
| D. E. McComb | ..... | 12 | ..... | \$169 00 | ..... | \$1,920 00 | Nos. 591, 601 | Completion of sewerage system of District of Columbia. |
| C. T. Curtis | ..... | 12 | ..... | ..... | \$1,440 00 | 1,440 00 | Nos. 591, 601 | Do. |
| J. R. Howard | 79 | ..... | \$4 50 | ..... | ..... | 355 50 | No. 599 | Do. |
| Do | 8 | ..... | ..... | ..... | ..... | 36 00 | No. 631 | Lateral sewers, 1886. |
| F. R. Burdette | 184 | ..... | 4 00 | ..... | ..... | 736 00 | Nos. 591, 601 | Completion of sewerage system of District of Columbia. |
| A. L. Duvall | 168 | ..... | 4 00 | ..... | ..... | 672 00 | No. 591 | Do. |
| Do | 16 | ..... | 4 00 | ..... | ..... | 44 00 | No. 631 | Lateral sewers, 1886. |
| J. G. Larnier | 121 | ..... | 4 00 | ..... | ..... | 484 00 | No. 591 | Do. |
| A. C. Paul | 118 | ..... | 4 00 | ..... | ..... | 473 00 | Nos. 591, 601 | Completion of sewerage system of District of Columbia. |
| William Hassey | 38 | ..... | 4 00 | ..... | ..... | 152 00 | No. 591 | Do. |
| D. Thomas | 27 | ..... | 4 00 | ..... | ..... | 108 00 | No. 591 | Do. |
| Do | 302 | ..... | 2 50 | ..... | ..... | 755 00 | Nos. 591, 601 | Do. |
| W. H. Voss | 106 | ..... | 3 00 | ..... | ..... | 318 00 | Nos. 627, 629, 631 | Lateral sewers, 1886. |
| E. Morris | 27 | ..... | 3 00 | ..... | ..... | 81 00 | Nos. 627, 629 | Do. |
| J. T. Johns | 27 | ..... | 2 50 | ..... | ..... | 67 50 | Nos. 591, 599, 601 | Completion of sewerage system of District of Columbia. |
| C. F. Little | 27 | ..... | 2 00 | ..... | ..... | 54 00 | Nos. 591, 599, 601 | Do. |
| C. Bailey | 31 | ..... | 1 50 | ..... | ..... | 46 50 | Nos. 627, 629 | Lateral sewers, 1886. |
| W. H. Mangum | 31 | ..... | 1 50 | ..... | ..... | 46 50 | Nos. 627, 629 | Do. |
| | | | | | | 7,808 00 | | |

APPENDIX No. 20.

REPORT OF SUPERINTENDENT OF STREETS.

OFFICE OF SUPERINTENDENT OF STREETS,
Washington, July 23, 1886.

COLONEL: I have the honor to submit the following report of work done in the engineer department under superintendence of this office during the fiscal year ending June 30, 1886:

REPAIRS TO STREETS, AVENUES, AND ALLEYS.

| | |
|---|-----------------------|
| Appropriation for current repairs to streets, avenues, and alleys | \$25,000 |
| Cobble and rubble pavement laid | square yards.. 25,439 |
| Granite block pavement laid | do... 247 |
| Macadam pavement | do... 9,483 |
| Brick sidewalk pavement laid | do... 11,219 |
| Asphalt block pavement laid | do... 595 |
| Gravel roadway repaired | do... 17,932 |
| Curb-stone set or reset | linear feet.. 7,704 |
| Flagging set or reset | do... 12,264 |
| Sewer pipe laid or relaid | do... 321 |
| Traps and drops built | 7 |
| Gutter bridges built | 13 |
| Flumes repaired | 19 |
| Miscellaneous minor repairs, dangerous holes, &c..... | 1,373 |

Five public dumps were regulated during the year as follows: one in Olive street, between Twenty-eighth street and Rock Creek; one in Reservations 15 and 16; one in Twenty-second street, between M and O streets northwest; one on Canal street, between South Capitol and First streets southwest; and one on C street, between Seventeenth and Eighteenth streets northwest.

Total expenditure, \$24,999.97.

REPAIRS TO BRIDGES.

| | |
|--|---------|
| Appropriation for repairs to bridges | \$6,000 |
|--|---------|

The N street bridge across James Creek Canal was torn down and a new bridge built in its place; a new floor was laid on the M street bridge across James Creek Canal; an iron floor beam on the K street bridge at Rock Creek was taken out, straightened and replaced, it having been bent by a collision of coal barges during a freshet; and several minor repairs were made during the year.

Total expenditure, \$2,566.29.

SWEEPING, CLEANING, AND SPRINKLING STREETS AND AVENUES.

Appropriation for sweeping, cleaning, and sprinkling streets and avenues.. \$45,000

Under this appropriation snow and ice were removed from the crossings of the principal streets and avenues four times during the winter, and the roadway of New York avenue, between Seventh and Boundary streets, was cleaned and sprinkled during the spring and fall meetings at the National Fair Grounds. Various gutters, roadways, and sidewalks were cleaned, aggregating as follows: Gutters, sidewalks, and roadways, 286,047 linear feet. This work was done on unimproved streets, and cost, together with carts for workhouse gang, \$8,262.47.

CLEANING ALLEYS.

Appropriation for cleaning alleys..... \$10,000

Unimproved alleys cleanedlinear feet.. 8,348
Cost, \$325.85.

CLEANING AND REPAIRING LATERAL SEWERS AND BASINS.

Appropriation for cleaning and repairing lateral sewers and basins..... \$20,000

| | |
|---------------------------------------|---------|
| Pipe sewer cleaned.....linear feet.. | 142,797 |
| Brick sewer cleaned.....do..... | 713 |
| Pipe sewer laid or relaid.....do..... | 2,244 |
| Traps and drops cleaned..... | 17,802 |
| Traps and drops built..... | 18 |
| Traps and drops repaired..... | 250 |
| Man-holes built..... | 13 |
| Man-holes repaired..... | 131 |
| Catch basins trapped..... | 1 |
| New blue-stone covers set..... | 7 |
| Gravel pits repaired..... | 2 |
| Gravel pits cleaned..... | 2 |
| Outlet caps to traps put in..... | 100 |
| Minor repairs to sewers, &c..... | 388 |

Total expenditure, \$19,990.95.

CLEANING TIDAL SEWERS.

Appropriation for cleaning tidal sewers \$5,000

The Tiber sewer was cleaned from Pennsylvania avenue to C street southwest, and there were removed from it 3,196 cubic yards of sand and gravel, which are stored in the sand-yard for use in repairing street pavements.

The value of this material is \$2,556.86.

The B-street sewer and its lateral tidal sewers were cleaned, and 468 cubic yards of silt removed. The Missouri avenue sewer was cleaned between Third and Four-and-a-half streets, and 131 cubic yards of silt was removed. Scows were repaired and sheds and tool houses were built at the sand-yard.

Total length of tidal sewer cleanedlinear feet.. 10,171
Total expenditure, \$5,000

PLUMBERS' CUTS.

Eighty-two cuts were made by plumbers and others in granite, block, and other pavements, and were repaired as follows:

| | | |
|------------------------------------|----------------|--------|
| Granite block pavement relaid..... | square yards.. | 3, 372 |
| Asphalt block pavement relaid..... | do..... | 36 |
| Belgian block pavement relaid..... | do..... | 125 |
| Brick sidewalk relaid..... | do..... | 2, 170 |
| Cobble pavement relaid..... | do..... | 259 |
| Curb-stone reset..... | linear feet.. | 98 |
| Flagging reset..... | do..... | 315 |

The cost of this work was paid from deposits made by plumbers and others, and amounted to \$2,656.41.

REPAIRS TO GUARANTEED CONTRACT WORK.

| | | |
|-----------------------------|----------------|--------|
| Brick pavement relaid..... | square yards.. | 4, 940 |
| Cobble pavement relaid..... | do..... | 150 |
| Flagging relaid..... | linear feet.. | 542 |

The whole cost of this work was paid from retain funds of contractors, and amounted to \$1,441.77.

PERMIT WORK.

| | | |
|---|----------------|--------------|
| Permit work, surface..... | | \$50, 000 |
| Grading..... | cubic yards.. | 17, 004 |
| Brick pavement laid..... | square yards.. | 21, 224 |
| Cobble and rubble pavement laid..... | do..... | 9, 656 |
| Granite block pavement laid..... | do..... | 239 |
| Asphalt block roadway pavement laid..... | do..... | 11, 415 |
| Asphalt block sidewalk pavement laid..... | do..... | 2, 351 |
| Asphalt tile sidewalk pavement laid..... | do..... | 1, 715 |
| Macadam roadway laid..... | do..... | 881 |
| Curb-stone set..... | linear feet.. | 19, 743 |
| Flagging laid..... | do..... | 16, 885 |
| Sewer pipe laid..... | do..... | 66 |
| Traps and drops built..... | | 3 |
| Cost of materials to permit fund..... | | \$41, 620 66 |
| Cost of materials to property owners..... | | 623 66 |
| Cost of materials on hand used..... | | 4, 599 02 |
| Cost of labor to property owners..... | | 18, 648 33 |
| Total cost of surface work..... | | 65, 491 67 |

Accompanying statement marked A shows in detail the location, kind, and cost of each piece of work, for whom done, and the overseer.

SEWERS.

| | | |
|---|---------------|-------------|
| Pipe sewer laid..... | linear feet.. | 16, 148 |
| Brick sewer laid..... | do..... | 153 |
| Traps and drops built..... | | 18 |
| Man-holes built..... | | 122 |
| Cost of materials to permit fund..... | | \$8, 261 34 |
| Cost of materials to property owners..... | | 1, 902 20 |
| Cost of materials on hand used..... | | 1, 222 42 |
| Cost of labor to property owners..... | | 14, 783 06 |
| Total cost of sewer work..... | | 26, 169 02 |

Accompanying statement marked B shows in detail the location, kind, and cost of each piece of work, for whom done, and the overseer.

Total cost of all permit work, \$91,660.69.

LATERAL SEWERS.

| | |
|---------------------------------------|----------|
| Appropriation for lateral sewers..... | \$25,000 |
| Pipe sewer laid.....linear feet.. | 741 |
| Man-holes built..... | 5 |
| Drops built..... | 1 |
| Total cost, \$999.17. | |

COUNTY ROADS.

| | |
|-------------------------------------|----------|
| Appropriation for county roads..... | \$40,000 |
| Pipe sewer laid.....linear feet.. | 457 |
| Man-holes built..... | 2 |
| Total cost, \$411.64. | |

WORKHOUSE LABOR.

Gangs of workhouse prisoners were employed under police surveillance in cleaning gutters, alleys, and streets, and draining ponds, filling dangerous holes, &c., for which work no regular appropriation of money was available.

The employment of this labor was, as heretofore, on such work as would have remained undone for want of money to pay for doing it.

Besides the numerous holes, ditches, ponds, &c., cleaned or drained, there were cleaned—

| | |
|---|---------|
| Gutters, sidewalk, roadways, &c.....linear feet.. | 451,064 |
| Alleys..... | 15,155 |

In addition to this work, a larger gang, with railroad track and dump cars, graded the following streets: Twelfth between H and I northeast; B between Twelfth and Fourteenth northeast; Twelfth between A and B northeast; A between Eleventh and Thirteenth northeast; Fenton between First and North Capitol northeast; Pierce between First and North Capitol northwest, and Tennessee avenue between A and B northeast.

On these streets there were expended 13,862 days' work under the direction of Mr. W. H. Stoutenburgh. The employment of these men for this work meets the hearty approval and commendation of the citizens, and the present sanitary condition of the city is largely due to the cleaning done by them.

There are several pieces of work ordered to be done by this force, of which comparatively little can be done, owing to the fact that the number of men available is very much reduced, there being now employed in both gangs only sixty-five men and boys. This reduction has been gradual since the Commissioners determined to compel workhouse prisoners to work, and the almost entire cessation of street mendicancy by able-bodied men may be attributed to the enforcement of this order.

RECAPITULATION.

| | | |
|--|----------------|---------|
| Brick pavement laid | square yards.. | 39,553 |
| Cobble pavement laid | do..... | 35,629 |
| Granite block pavement laid | do..... | 3,858 |
| Asphalt block pavement laid | do..... | 14,397 |
| Asphalt tile pavement laid | do..... | 1,715 |
| Macadam roadway | do..... | 10,364 |
| Gravel roadway | do..... | 17,932 |
| Curbstone set | linear feet.. | 27,545 |
| Flagging laid | do..... | 30,006 |
| Pipe sewer cleaned | do..... | 19,997 |
| Brick sewer cleaned | do..... | 142,797 |
| Traps and drops cleaned | do..... | 9,572 |
| Traps and drops built | number..... | 17,802 |
| Traps and drops repaired | do..... | 47 |
| Traps and drops repaired | do..... | 250 |
| Man-holes built | do..... | 142 |
| Man-holes repaired | do..... | 131 |
| Catch basins trapped | do..... | 1 |
| New blue-stone covers set | do..... | 7 |
| Gutter bridges built | do..... | 13 |
| Flumes repaired | do..... | 19 |
| Outlet caps to traps put in | do..... | 100 |
| Brick sewer built | linear feet.. | 153 |
| Gutters, sidewalk, and roadway cleaned | miles..... | 131.3 |
| Alleys cleaned | do..... | 4.4 |
| Gravel pits cleaned | number..... | 2 |

Total cost of work done, \$157,989.36.

SEWERS.

The work of relaying old pipe sewers originally laid prior to 1873, into which tree roots have grown, has become almost imperative, as in many places they are so filled with the roots as to prevent the passage of water from even slight showers of rain.

I instance some of the worse places:

Rhode Island avenue between Fifth and Seventh streets; Fifth street from Rhode Island avenue to Boundary street; G street between Twenty-third and Twenty-fourth streets northwest; D street between Sixth and Ninth streets southwest; East Capitol street between Sixth and Seventh streets northeast; T street between Twelfth and Fourteenth streets northwest, and B street between Twelfth and Fourteenth streets southwest.

Frequent attempts have been made to clean these sewers with a root-cutting apparatus with but indifferent success. Where one root is cut off it branches out into many smaller ones which mat together and soon close the pipe.

Under the current appropriations the most urgent of these sewers can be relaid, and I respectfully recommend that this be done as soon as possible. The cost of those above mentioned would be \$8,434.

The old brick sewers in Georgetown are defective, and in two places have fallen in and need repairing.

ALLEYS.

I would again call attention to the cobble-paved alleys and suggest that no more of them be paved with this material, but that as far as possible granite blocks be used in the narrow alleys, and asphalt blocks in the wider ones where the travel is not confined to a single line of cobble or blocks.

Mr. Hinds, inspector of alley cleaning, reports that repairs to cobble pavements in alleys are required to the amount of 6,000 square yards, notwithstanding the large amount of repairs done during the year. Hence it will appear that cobble stone is the most expensive material used for the purpose on account of the cost of repairs. At the same time it is noisy, hard to clean, and unhealthy by reason of stagnant water in sunken places in it,

Very respectfully,

JNO. J. BURROWS,
Superintendent of Streets.

Col. WILLIAM LUDLOW,
Corps of Engineers, U. S. Army,
Engineer Commissioner, District of Columbia.

APPENDIX 20a.—*Sewer permit work.*

| Number. | Location. | Pipe sewers (linear feet). | | | | | | Brick sewers (lin- ear feet) | Man-holes. | Traps and drops. | | Branches. | Estimated cost of labor. |
|---------|-----------------------------------|----------------------------|---------|----------|----------|----------|----------|---------------------------------|------------|------------------|-----|-----------|-----------------------------|
| | | 6-inch. | 8-inch. | 12-inch. | 15-inch. | 18-inch. | 24-inch. | | | No. | No. | | |
| 6 | Alley, sq. 926 SE. | | 305 | | | | | | 1 | | | 31 | \$266 00 |
| 7 | Rock bet. M and Olive NW | 290 | | | | | | | | 1 | 1 | | 87 |
| 8 | Lots 8 and 9, sq. 212 NW | | 95 | | | | | | 1 | | | 7 | 52 20 |
| 17 | G st. bet. 3d and 4th NW | | 122 | | | | | | | | | 3 | 148 06 |
| 18 | Alley, sq. 28 NW | | 148 | | | | | | | | | 3 | 115 20 |
| 28 | N Car. ave. 7th and 8th SE | | | 224 | | | | | | | | 8 | 741 02 |
| 30 | Curtis school NW | | | | | | | 153 | | | | | 170 00 |
| 31 | N J. ave. bet. Q and Franklin NW. | | 125 | 277 | | | | | 3 | | | 20 | 282 40 |
| 32 | Alley, sq. 561 NW | | 138 | | | | | | | | | 9 | 80 30 |
| 33 | Q bet. 9th and Columbia NW | | 48 | | | | | | | | | 3 | 36 00 |
| 36 | Alley, sq. 59 NW | | 136 | | | | | | 1 | | | 5 | 127 80 |
| 37 | Alley, sq. 54 NW | | 22 | | | | | | | | | 1 | 15 40 |
| 38 | Alley, sq. 49 SW | | | 191 | | | | | 2 | | | 13 | 117 60 |
| 40 | Alley, sq. 1003 NE | | 255 | 715 | 245 | | | | 9 | | | 102 | 670 00 |
| 42 | Alley, sq. 597 SW | | 267 | 373 | | | 210 | | 5 | 3 | | 48 | 545 80 |
| 50 | Fenton Place NE | | 24 | 320 | | | | | 3 | | | 20 | 365 61 |
| 51 | Alley, sq. 620 NW | | 54 | 91 | | | | | | 1 | | 1 | 126 00 |
| 52 | Alley, sq. 620 NW | | | 151 | | | | | | 1 | | 8 | 140 00 |
| 53 | Ed st. bet. H and L NW. | | 220 | | | | | | | 1 | | 8 | 135 08 |
| 56 | Alley, sq. 815 SE | | 153 | | | | | | 2 | | | 8 | 177 10 |
| 57 | A st. bet. 8th and 9th SE | | 111 | | | | | | | | | 6 | 60 00 |
| 59 | 10th st. bet. E and G SE | | | 169 | | | | | 1 | | | 6 | 114 10 |
| 62 | 13th bet. S and T NW | | | 183 | | | | | | 1 | | 12 | 133 00 |
| 63 | 1st bet. 16th and 17th NW | | | 210 | | | | | | 1 | | 4 | 147 00 |
| 64 | Conn. ave. bet. R and S NW | | | 100 | | | | | | | | 5 | 79 00 |
| 65 | R L. ave. bet. 11th and 12th NW | | | 69 | | | | | | | | 3 | 49 00 |
| 66 | 3c st. bet. B and C NW | | | 149 | | | | | 1 | | | 3 | 75 00 |
| 69 | Mass. ave. bet. 6th and 7th NE | | | | | | | | | | | 3 | 60 00 |
| 72 | Alley in sq. 621 NW | | 100 | 243 | | | | | 2 | | | 10 | 255 05 |
| 73 | Alley in sq. 441 NW | | 105 | | | | | | | | | 5 | 105 00 |
| 79 | Alt. y in sq. 566 NE | | 88 | | | | | | | | | 7 | 51 60 |
| 86 | L st. bet. 8th and 9th NW | | 86 | | | | | | | | | 4 | 61 00 |
| 87 | Alt. y in sq. 518 NW | | 140 | | | | | | 1 | | | 20 | 52 52 |
| 89 | Alley in sq. 609 SW | | 65 | | | | | | | | | 3 | 39 00 |
| 90 | Alley in sq. 357 NW | | 53 | | | | | | | | | 8 | 26 50 |
| 91 | B st. bet. 10th and 11th SE | | | 119 | | | | | | | | 7 | 75 60 |
| 92 | Alley in sq. 26 NW | | 81 | | 3 | | | | | | | 3 | 72 29 |
| 97 | Alley, sq. 350 NW | | 144 | | | | | | | | | 6 | 118 68 |
| 98 | P. a. av. bet. 12th and 13th SE | | | 193 | | | | | 1 | | | 8 | 154 00 |
| 99 | P. at Met car stables NW | | | | | | | | | | 1 | | 58 89 |
| 100 | Cor 20th and Bdy. NW | | 36 | 9 | | | | | | | | 7 | 30 00 |
| 101 | 4th bet. N and O NW | | 134 | | | | | | | | | 6 | 73 20 |
| 105 | Alley, sq. 16 NW | | 128 | | | | | | | | | 5 | 77 95 |
| 106 | 10th st. bet. B and Mass. av. NE. | | 122 | | | | | | | | | 6 | 60 00 |
| 113 | Alley, sq. 271 NW | | | 968 | 221 | | | | 8 | 2 | 134 | 875 00 | |
| 114 | S Car. av. bet. 11th and 12th SE | | | 104 | | | | | | | | 3 | 82 50 |
| 115 | 4th bet. S Car. av. and G SE | | 54 | | | | | | | | | 3 | 33 60 |
| 119 | N Y. av. bet. 17th and 18th NW | | | 186 | | | | | 1 | | 11 | 133 00 | |
| 126 | Alley in sq. 121 NW | 83 | | | | | | | | | 1 | 70 00 | |
| 127 | Alley in sq. 50 NW | | 181 | | | | | | 1 | | 3 | 162 28 | |
| 129 | Alley in sq. 756 NE | | | 152 | | | | | | | 5 | 156 76 | |
| 130 | 23d st. bet. F and G NW | | | 385 | | | | | 2 | | 12 | 301 00 | |
| 131 | 24 st. bet. Pa. av. and B NW | | 74 | | | | | | | | 3 | 36 50 | |
| 132 | Alley in sq. 788 SE | | 169 | | | | | | | | 5 | 122 59 | |
| 133 | Alley in sq. 550 NW | | | 477 | | | | | 2 | | 21 | 318 50 | |
| 134 | Alley in sq. 760 SE | | | 392 | | | | | 3 | | 16 | 318 62 | |
| 140 | Alley in sq. 809 NE | | | 150 | | | | | 2 | | 3 | 91 06 | |
| 151 | Alt. x in sq. 463 SW | | 48 | 105 | | | | | | 1 | 1 | 19 | 182 51 |
| 152 | 801 F st. SW | | | 61 | | | | | | | | 2 | 63 00 |
| 153 | Ohio av. bet. 14th and 15th NW | | | 166 | | | | | 1 | | 5 | 90 00 | |
| 154 | Alt. x, sq. 638 SW | 11 | 344 | 302 | | | | | 6 | 2 | 56 | 243 60 | |
| 155 | Lot 1 sq. 732 SE | 51 | | | | | | | | | 3 | 25 00 | |
| 160 | Alley, sq. 537 NW | | 88 | | | | | | | | 5 | 72 20 | |
| 172 | C st. bet. 7th and 8th NE | | | 136 | | | | | 1 | | 8 | 93 80 | |
| 173 | P st. bet. 7th and 8th NW | | 80 | | | | | | | | 4 | 61 60 | |
| 174 | X st. bet. 1st and 3d NW | | 82 | | | | | | | | 6 | 87 50 | |
| 175 | Alley, sq. 567 NW | | 111 | | | | | | | | 4 | 160 00 | |
| 176 | Alley, sq. 589 NW | | | | | | | | | | 3 | 55 00 | |
| 178 | Alley, sq. 28 NW | | 96 | | | | | | | | 7 | 47 50 | |
| 179 | Alley, sq. 922 SE | | | 77 | | | | | | | 10 | 54 15 | |
| 180 | Alley, sq. 873 SE | | 128 | | | | | | | | 3 | 108 00 | |

APPENDIX 20a.—Sewer permit work.

| Cost of labor. | Cost of materials. | | | Total cost. | Cost under esti- mate. | For whom done. | Overseer. |
|----------------|--------------------|-------------------------|-------------|-------------|---------------------------|-------------------------------|-----------|
| | Permit fund. | Prop- erty owner. | On hand. | | | | |
| \$220 74 | \$63 93 | \$42 91 | \$49 38 | \$376 97 | \$2 34 | G. Brown <i>et al</i> | Rock. |
| 43 80 | 8 06 | | 37 40 | 89 26 | 43 20 | P. J. McIntire | Do. |
| 48 46 | 16 40 | | 13 11 | 77 97 | 3 74 | C. A. Didden | Do. |
| 101 21 | | 35 88 | | 137 09 | 11 87 | M. Crane | Do. |
| 59 89 | | 41 70 | | 101 59 | 13 61 | L. A. Veerhoff | Do. |
| 140 00 | 76 39 | | 53 92 | 270 31 | | B. Chareton & Co. | Do. |
| 771 02 | | | 415 97 | 1,186 99 | | Public schools | Wilson. |
| 211 81 | 63 13 | 70 59 | 66 68 | 412 21 | | Duvall & Marr | Rock. |
| 46 41 | | 33 89 | | 80 30 | | C. B. Pearson | Wilson. |
| 24 24 | 8 50 | | 5 88 | 38 62 | 11 76 | R. Boyd | Do. |
| 73 15 | | 48 05 | | 121 20 | 6 00 | R. A. Buechler | Do. |
| 14 21 | 50 | | | 14 71 | 1 19 | J. Youngs | Do. |
| 116 74 | 6 45 | | 50 00 | 233 19 | 86 | A. F. Baker | Rock. |
| 554 23 | 305 02 | | 279 57 | 1,138 82 | 115 77 | W. B. M. Co | Wilson. |
| 476 57 | 292 45 | | 137 70 | 906 75 | 69 23 | Ed. Temple | Rock. |
| 223 53 | 35 18 | 129 32 | 29 76 | 417 79 | 12 76 | B. H. Warner | Do. |
| 52 28 | | 73 72 | | 126 00 | | T. J. King | Do. |
| 140 00 | 83 27 | | | 223 27 | | W. T. Rover | Do. |
| 135 08 | 62 68 | | | 197 76 | | E. Sully | Wilson. |
| 110 93 | | 66 17 | | 177 10 | | Danenhower & Son | Do. |
| 47 91 | 22 90 | | | 70 81 | 12 09 | E. Gorman | Do. |
| 106 55 | 74 74 | | | 181 29 | 7 53 | T. Jarvis | Do. |
| 108 44 | 82 25 | | | 190 69 | 24 56 | J. Robbins | Do. |
| 142 34 | 83 87 | | | 226 21 | 4 66 | T. L. Riggs | Do. |
| 47 47 | 37 70 | | | 85 17 | 22 53 | S. Millican | Do. |
| 44 18 | 17 86 | | | 62 04 | 4 82 | P. R. Daley | Do. |
| 75 00 | 40 83 | | | 115 83 | | W. C. O'Meara | Rock. |
| 49 19 | 22 70 | | | 71 89 | 10 81 | C. M. Hanke | Do. |
| 173 00 | 86 67 | 59 93 | | 319 60 | 22 12 | G. J. Mueller | Do. |
| 46 96 | | 29 20 | | 76 16 | 28 84 | C. Jordan | Wilson. |
| 50 58 | 24 90 | | | 75 48 | 1 02 | N. O. Williams | Rock. |
| 61 00 | 18 80 | | | 79 80 | | P. M. Dubant | Do. |
| 14 58 | 43 79 | | | 58 37 | 37 94 | B. H. Warner | Do. |
| 32 21 | 27 54 | | | 59 75 | 6 79 | O. C. Baek | Do. |
| 17 13 | 14 00 | | | 31 13 | 9 37 | E. Greer | Do. |
| 75 60 | 43 88 | | | 119 48 | | P. C. Palmer | Wilson. |
| 48 51 | | 23 78 | | 72 29 | | R. I. Flenning | Rock. |
| 50 97 | | 42 50 | | 93 47 | 25 21 | Oliver Cox | Do. |
| 141 62 | 81 17 | | | 222 79 | 12 38 | M. Kottennan | Wilson. |
| 19 19 | | 39 70 | | 58 89 | | Met. R. R. Co | Bolden. |
| 18 02 | | 11 98 | | 30 00 | | Waggaman & Duvall | Rock. |
| 73 20 | 29 15 | | | 102 35 | | D. E. W. Towson | Do. |
| 42 74 | | 35 21 | | 77 95 | | Danenhower & Son | Do. |
| 52 61 | 26 24 | | | 78 85 | 7 39 | William C. Peake | Wilson. |
| 58 62 | 556 22 | | 70 90 | 1,215 74 | 284 38 | B. H. Warner | Rock. |
| 62 87 | 36 20 | | | 99 07 | 19 63 | J. M. Miller | Wilson. |
| 30 30 | 13 50 | | | 43 80 | 3 30 | W. E. Hill | Do. |
| 133 00 | 88 65 | | | 221 65 | | J. H. Smith | Do. |
| 50 68 | | 19 23 | | 69 91 | 09 | A. B. Graham | Do. |
| 99 63 | | 62 65 | | 162 28 | | Wescott & Wilcox | Do. |
| 63 87 | | 44 47 | | 108 34 | 42 42 | B. F. Leighton | Rock. |
| 300 46 | 141 89 | | | 442 35 | 54 | S. N. Thom | Wilson. |
| 23 08 | 16 65 | | | 39 73 | 13 42 | H. Meritt & H. E. Lewis | Rock. |
| 70 29 | | 52 30 | | 122 59 | | H. H. Sampson | Do. |
| 301 17 | 210 36 | | | 511 53 | 17 33 | J. W. Tyler | Do. |
| 318 62 | 186 74 | | | 505 36 | | Hill <i>et al</i> | Do. |
| 90 14 | 78 66 | | | 168 80 | 86 | W. Bähler | Do. |
| 83 32 | | 88 04 | | 171 36 | 11 15 | E. Greer | Wilson. |
| 59 33 | 42 36 | | | 101 69 | 3 67 | J. A. Thomas | Do. |
| 90 00 | 75 83 | | | 165 85 | | Mrs. Hosch | Do. |
| 243 20 | 291 47 | | | 535 07 | | E. Temple | Do. |
| 22 94 | 8 60 | | 6 15 | 37 69 | 2 06 | W. N. Campbell | Rock. |
| 27 66 | | 25 03 | | 52 69 | 19 57 | B. H. Warner | Do. |
| 78 39 | 67 07 | | | 145 46 | 15 41 | G. Brown | Wilson. |
| 59 03 | 24 64 | | | 83 67 | 2 57 | T. D. Daily | Rock. |
| 33 02 | 24 12 | | | 57 14 | 4 48 | L. J. Davis | Do. |
| 48 44 | | 31 58 | | 80 02 | 19 98 | J. F. Tarkington | Do. |
| 54 88 | 30 68 | | | 85 56 | 12 | S. C. McDowell | Do. |
| 47 50 | 29 15 | | | 76 65 | | R. N. Tilton | Wilson. |
| 37 87 | 30 16 | | | 68 03 | 16 32 | J. D. Croissant | Do. |
| 39 13 | | 38 91 | | 78 04 | 29 96 | Swormstedt & Bradley | Do. |

APPENDIX 20a.—Sewer permit work—Continued.

| Number. | Location. | Pipe sewers (linear feet). | | | | | | Brick sewers (linear feet). | | Traps and drops. | Branches. | Estimated cost of labor. |
|---------|---|----------------------------|---------|----------|----------|----------|----------|-----------------------------|-----|------------------|-----------|--------------------------|
| | | 6-inch. | 8-inch. | 12-inch. | 15-inch. | 18-inch. | 24-inch. | No. | No. | | | |
| 182 | Anacostia school | 58 | 80 | | | | | No. | No. | No. | 2 | \$35 74 |
| 186 | Alley sq. 674 NW | | 79 | | | | | | | 2 | 4 | 64 00 |
| 190 | 10th st. bet. Mass. av. and B NE | | | 196 | | | | 1 | | | 9 | 137 20 |
| 191 | Alley, sq. 239 NW | | | 112 | | | | 1 | | | 14 | 78 40 |
| 193 | Alley, sq. 284 NW | 145 | | | | | | | | | 6 | 91 20 |
| 195 | E st. bet. 5th and 6th NE | | 80 | | | | | | | | 3 | 56 00 |
| 196 | A st. bet. 11th and 12th NE | | 60 | | | | | | | | 3 | 42 00 |
| 198 | 5th st. bet. A and B NE | | 300 | | | | | 2 | | | 12 | 210 00 |
| 201 | Alley, sq. 520 NW | | 147 | | | | | 1 | | | 12 | 115 00 |
| 215 | 10th st. bet. Md. av. and C SW | 75 | | | | | | | | | 3 | 56 00 |
| 217 | Alley, sq. 546 SW | | 852 | | 425 | | | 7 | | | 74 | 650 00 |
| 219 | E st. bet. 11th and 12th SE | | 170 | | | | | 1 | | | 10 | 119 00 |
| 222 | Alley, sq. 516 SW | | 89 | | | | | | | | 10 | 45 00 |
| 223 | Alley bet. Stroughton and Chapin NW | | | 865 | | | | 5 | | | 34 | 635 00 |
| 225 | { Va. av. bet. 6th and 7th SE } { K st. bet. 6th and 7th SE. } | | 238 | | | | | | | | 12 | 132 00 |
| 226 | L st. bet. 20th and 21st NW | | 36 | | | | | | | | 3 | 23 80 |
| 227 | N. Cpt. bet. K and L NW | | 286 | | | | | 3 | | | 10 | 200 90 |
| 228 | Alley, sq. 275 NW | 66 | | | | | | | | | 6 | 36 00 |
| 235 | Alley, sq. 753 NW | | 379 | | | | | 2 | | | 9 | 328 05 |
| 236 | Alley, sq. 4 NW | | 255 | | | | | 2 | | | 11 | 286 45 |
| 237 | Cor. 9th and S sts. NW | | 174 | | | | | 1 | | | 6 | 108 00 |
| 241 | Alley, sq. 361 NW | | | 245 | | | | 1 | | | 40 | 168 00 |
| 242 | Alley, sq. 70 NW | | 58 | 61 | | | | 1 | | | 10 | 90 00 |
| 243 | Alley, sq. 44 NW | | 197 | | | | | 1 | | | 10 | 187 50 |
| 244 | Cor. 4th and K NE | | | | 77 | | | | | | 1 | 61 60 |
| 245 | M st. bet. 3d and 4th NW | | 154 | | | | | 1 | | | 1 | 96 00 |
| 251 | Alley, sq. 67 NW | 134 | | | | | | | | | 29 | 239 50 |
| 256 | Alley, sq. 621 NW | | 207 | 70 | | | | | | | 2 | 57 60 |
| 261 | Alley, sq. 337 NW | | 95 | | | | | 3 | | | 7 | 100 80 |
| 262 | Cor. 20th and N NW | | 94 | | | | | | | | 5 | 50 70 |
| 263 | K st. bet. 3d and 4th NE | | 43 | 37 | | | | 1 | | | 12 | 134 60 |
| 265 | 5th and Water sts. | | 38 | 180 | | | | | | | 6 | 126 00 |
| 269 | V st. bet. Vert. av. and 10th NW | | 179 | | | | | 1 | | | 7 | 70 00 |
| 270 | M st. bet. N. H. av. and 21st NW | | 69 | | | | | | | | 5 | 117 60 |
| 273 | Alley, sq. 733 NE | | 153 | | | | | | | | 1 | 126 00 |
| 274 | A st. bet. 7th and 8th NE | | | 180 | | | | 1 | | | 8 | 122 50 |
| 276 | N. C. av. bet. 9th and 10th SE | | 14 | 175 | | | | | | | 1 | 28 00 |
| 277 | H st. bet. 5th and 9th NE | 47 | | | | | | | | | 3 | 20 00 |
| 279 | P st. 32d and 33d N. W | | 30 | | | | | | | | 1 | 136 75 |
| 280 | Alley sq. 621 NW | | 139 | | | | | 1 | | | 4 | 106 84 |
| 281 | Riggs bet. 13 and 14 NW | | 51 | 95 | | | | | | | 9 | 50 44 |
| 283 | Alley sq. 515 NW | | 60 | | | | | 1 | | | 1 | 100 72 |
| 284 | Alley sq. 281 NW | | 119 | | | | | | | | 3 | 35 00 |
| 285 | Alley sq. 287 SW | 48 | | | | | | | | | 1 | 12 00 |
| 286 | Alley sq. 990 SE | | 157 | | | | | 1 | 1 | | 3 | 96 50 |
| 289 | Alley sq. 533 NW | | 126 | | | | | | | | 12 | 95 50 |
| 293 | Alley sq. 541 SW | | | 114 | | | | | | | 5 | 80 50 |
| 297 | Alley sq. 677 NE | | | 48 | | | | | | | 9 | 150 00 |
| 298 | O st. bet. 8th and 9th NW | | 127 | | | | | | | | 10 | 86 40 |
| 302 | Alley sq. 198 NW | | 255 | | | | | 1 | | | 3 | 66 50 |
| 303 | Alley sq. 32 NW | | 94 | | | | | | | | 3 | 66 00 |
| 305 | E st. bet. 3d and 4th NE | | | 81 | | | | 1 | | | 1 | 20 40 |
| 306 | 10th E. Cpt. and Mass. ave. NE | | 105 | | | | | | | | 1 | 70 60 |
| 307 | Alley 3d and 42 and Pa. ave. and C NW | | 32 | | | | | | | | 7 | 140 00 |
| 309 | E st. bet. 3d and 3d SE | | | 98 | | | | | | | 1 | 31 50 |
| 310 | Alley sq. 104 NW | | 29 | | | | | | | | 7 | 45 00 |
| 315 | G st. bet. 14th and 15th NE | | | 182 | | | | 1 | | | 4 | 33 60 |
| 317 | Alley sq. 76 NW | | | 56 | | | | | | | 10 | 95 00 |
| 322 | O st. bet. 29th and 30th NW | | 53 | | | | | | | | 5 | 45 00 |
| 323 | Chapin st. west of 14th NW | | | 170 | | | | | | | 1 | 275 00 |
| 329 | Col. st. O and P and 9th and 10th NW | | 75 | | | | | | | | 10 | 136 65 |
| 331 | Alley sq. 992 SE | | 308 | | | | | | | | 1 | 193 10 |
| 333 | Alley sq. 51, Geotin | | | 122 | | | | 1 | | | 16 | |
| 347 | Alley sq. 110 NW | | 162 | | | | | | | | 10 | |

*Appropriation, "Lateral sewers," 1886.

APPENDIX 20a.—Sever permit work—Continued.

| Cost of labor. | Cost of materials. | | | Total cost. | Cost under estimate. | For whom done. | Overseer. |
|----------------|--------------------|-----------------|----------|-------------|----------------------|----------------------|--------------|
| | Permit fund. | Property owner. | On hand. | | | | |
| \$35 74 | \$37 86 | | \$5 94 | \$79 54 | | Public schools | Rock. |
| 31 76 | | \$22 13 | | 53 89 | \$10 11 | Thomas Yates | Do. |
| 124 46 | 90 93 | | | 215 41 | 12 72 | T. F. Schneider | Wilson. |
| 78 40 | 57 93 | | | 136 33 | | James Robbins | Rock. |
| 53 98 | | 26 70 | | 80 68 | 10 52 | Ann E. Smoot | Do. |
| 87 62 | 32 16 | | | 69 78 | 18 38 | M. Keen | Wilson. |
| 39 89 | 23 44 | | | 63 33 | 2 11 | T. F. Schneider | Do. |
| 169 77 | 136 16 | | | 305 93 | 40 23 | Thomas Hughes | Rock. |
| 81 08 | 74 03 | | | 155 11 | 33 91 | John Miller | Do. |
| 40 08 | 18 10 | | | 58 18 | 15 92 | L. M. Cornwell | Do. |
| 494 64 | 775 75 | | | 1,270 39 | 155 36 | B. H. Warner | Do. |
| 117 04 | 83 07 | | | 200 11 | 1 96 | L. Luchs | Wilson |
| 40 58 | 35 78 | | | 76 36 | 4 42 | D. J. Kaufman | Rock. |
| 598 42 | 340 51 | | | 938 93 | 36 58 | C. Schneider | Do. |
| 116 98 | 67 69 | | | 184 67 | 15 02 | R. A. Morrison | Wilson. |
| 236 67 | 12 00 | | | 35 67 | 13 | Danenhower & Son | Do. |
| 200 90 | 149 76 | | | 350 66 | | Stevens & Lawrence | Rock. |
| 33 28 | 20 29 | | | 53 57 | 2 72 | C. A. Didden | Wilson. |
| 146 27 | 55 92 | 83 89 | | 286 08 | 98 49 | W. Z. Partello | Do. |
| 175 55 | 50 40 | 53 92 | | 279 87 | 56 98 | J. E. Hill | Rock. |
| 99 93 | 44 97 | | | 144 90 | 8 07 | J. G. Hester | Do. |
| 166 54 | 114 45 | | | 280 99 | 1 46 | Tarkington & King | Wilson. |
| 50 20 | 25 43 | 39 58 | | 115 21 | 22 | C. V. Trott | Rock. |
| 116 52 | | 71 07 | | 187 59 | | J. H. McGill | Do. |
| 61 00 | 41 60 | | | 103 20 | | Stevens & Lawrence | Do. |
| 89 60 | 145 32 | | | 234 92 | | Danenhower & Son | Wilson. |
| 48 17 | | 23 84 | | 72 01 | 23 99 | N. F. Halloran | Do. |
| 163 06 | 55 66 | 94 53 | | 313 25 | 1 91 | N. F. Haller | Rock. |
| 48 45 | 24 83 | | | 73 28 | 9 15 | Mrs. A. Patten | Do. |
| 76 63 | 27 50 | | | 104 13 | 24 17 | J. W. Tyler | Do. |
| 55 90 | 54 93 | | | 110 83 | 3 80 | S. G. Stewart | Do. |
| 130 48 | 80 58 | | | 211 06 | 24 12 | Guy F. Whiting | Do. |
| 121 96 | 85 19 | | | 207 15 | 4 04 | George F. Schafer | Do. |
| 62 95 | 27 42 | | | 90 37 | 7 03 | Charles Wheatly | Do. |
| 67 90 | 41 62 | | | 99 52 | 59 70 | Thomas E. Waggaman | Do. |
| 104 46 | 85 87 | | | 190 33 | 21 54 | J. L. Hodge | Do. |
| 99 53 | 67 68 | | | 167 21 | 22 97 | Thomas Kirby | Do. |
| 18 09 | 8 43 | | | 28 12 | 8 31 | James Cavanaugh | Do. |
| 12 22 | 8 49 | | | 20 71 | 7 78 | W. H. West & Bro | Do. |
| 52 74 | | 52 98 | | 105 72 | 31 03 | T. Potee | Wilson. |
| 106 84 | 65 90 | | | 172 74 | | Emmert & Heisly | Rock. |
| 19 05 | | 20 17 | | 39 22 | 11 22 | G. A. Schafer | Do. |
| 54 31 | | 32 41 | | 86 72 | 14 00 | Swormstedt & Bradley | Do. |
| 28 78 | 9 68 | | | 38 46 | 6 22 | J. H. Marr | Do. |
| 12 00 | 74 59 | | | 86 59 | | Thomas E. Waggaman | Do. |
| 60 70 | 7 19 | 30 42 | | 98 31 | 5 38 | G. I. Hall | Wilson. |
| 58 07 | 47 70 | | | 105 77 | 37 43 | G. E. Emmons | G. E. Emmons |
| 81 05 | 19 69 | | | 50 74 | 4 95 | Y. Goodwin At Lee | Wilson. |
| 79 73 | 43 79 | | | 123 52 | 77 | P. N. Dwyer | Do. |
| 123 25 | 82 84 | | | 206 09 | 26 75 | P. Ford | Rock. |
| 46 76 | 5 53 | 39 64 | | 91 93 | | Henry E. Scott | Do. |
| 52 64 | 31 90 | | | 84 54 | 13 86 | S. F. Emmons | Do. |
| 51 12 | 29 86 | | | 80 98 | 14 88 | Aug. Getz | Do. |
| 18 60 | 9 95 | | | 28 55 | 1 80 | D. A. Windsor | Do. |
| | | | | | | Thomas Hodson | Do. |
| | | | | | | Thomas W. Geary | Do. |
| 46 32 | 38 82 | | | 85 14 | 23 68 | Providence Hospital | Wilson. |
| 14 44 | | 9 84 | | 24 28 | 7 22 | Spencer Smith | Rock. |
| 116 86 | 84 77 | | | 201 63 | 23 14 | F. Schroth | Do. |
| 18 18 | | 24 43 | | 42 61 | 2 39 | Stevens & Lawrence | Wilson. |
| 29 52 | 16 47 | | | 45 99 | 4 08 | D. B. Odgen | Rock. |
| 84 89 | 53 00 | | | 137 89 | 10 11 | Anlie Palmer | Do. |
| 33 57 | 22 81 | | | 56 38 | 11 43 | W. A. Cook | Do. |
| 233 80 | 113 73 | | | 347 53 | 41 20 | G. J. Mueller | Do. |
| 67 10 | 6 25 | 69 55 | | 142 90 | | Thomas E. Waggaman | Do. |
| 89 37 | 20 00 | 60 35 | | 149 72 | 63 38 | W. W. Sinclair | Do. |

† Inspection.

226 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

APPENDIX 20a.—Sewer permit work—Continued.

| Number. | Location. | Pipe sewers (linear feet). | | | | | | Brick sewers (linear feet). | Man-holes. | Traps and drops. | Branches. | Estimated cost of labor. |
|---------|-------------------------------------|----------------------------|---------|----------|----------|----------|----------|-----------------------------|------------|------------------|-----------|--------------------------|
| | | 6-inch. | 8-inch. | 12-inch. | 15-inch. | 18-inch. | 24-inch. | | | | | |
| 348 | Alley sq. 669 NE | | 441 | | | | | | No. | No. | No. | |
| 349 | Alley sq. 359 NW | | | 159 | | | | | 2 | | 6 | \$255 00 |
| 352 | 820 K st. SE. | | | 25 | | | | | | | 1 | 175 50 |
| 355 | N st. bet. N. H. av. and 21st | | 312 | | | | | | 2 | | 8 | 18 20 |
| 357 | 22d st. M and N NW | | 118 | | | | | | 1 | | 1 | 214 12 |
| 358 | Sq. N. of sq. 507 NW | | 100 | | | | | | 1 | | 10 | 83 30 |
| 364 | F st. Va. ave. and 22d st. NW | | 115 | | | | | | | | 5 | 70 00 |
| 367 | 11th st. O and P NW | | 235 | | | | | | | | 5 | 69 00 |
| | Total | 877 | 10,583 | 12,995 | 583 | 425 | 210 | 153 | 122 | 18 | 1,433 | 18,872 51 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 227

APPENDIX 20a.—Sewer permit work—Continued.

| Cost of labor. | Cost of materials. | | | Total cost. | Cost under estl. mate. | For whom done. | Overseer. |
|----------------|--------------------|------------------|-------------|-------------|------------------------|---------------------------------|-----------|
| | Permit fund. | Prop-erty owner. | On hand. | | | | |
| \$238 16 | \$252 85 | | | \$491 01 | \$16 84 | B. H. Warner & Co. | Rock. |
| 135 84 | 115 72 | | | 251 56 | 39 66 | A. McIntosh | Do. |
| 17 92 | 10 37 | | | 28 29 | 28 | Mrs. B. B. French | Wilson. |
| 187 55 | 109 56 | | | 297 11 | 26 57 | J. E. Dexter <i>et al</i> | Rock. |
| 80 04 | 44 66 | | | 124 70 | 3 26 | J. W. Thompson | Wilson. |
| 46 46 | 37 67 | | | 84 13 | 23 54 | J. B. Clayton | Do. |
| 68 78 | 28 00 | | | 96 78 | 22 | A. E. Fowler | Do. |
| 111 56 | 62 35 | | | 173 91 | 29 44 | T. Langston | Do. |
| 14, 783 06 | 8, 261 34 | \$1, 902 20 | \$1, 222 42 | 26, 169 02 | 2, 276 85 | | |

JNO. J. BURROWS,
Superintendent of Streets.

APPENDIX 20b.—Surface permit work.

| Number. | Location. | Grading (cubic yards). | Curb set (linear feet). | Brick sidewalk (square yards). | Cobble or rubble (square yards). | Granite block (square yards). | Asphalt block roadway (square yards). | Asphalt block sidewalk (square yards). | Macadam (square yards). | Flagging (linear feet). | Sewer pipe (linear feet). | Traps and drops (number). | Asphalt tile sidewalk (square yards). |
|---------|--|------------------------|-------------------------|--------------------------------|----------------------------------|-------------------------------|---------------------------------------|--|-------------------------|-------------------------|---------------------------|---------------------------|---------------------------------------|
| 1 | C st. bet. 4 $\frac{1}{2}$ and 6 st. NW..... | 23 | | | | | | 258 | | | | | |
| 2 | 2016 13th st. NW..... | | 20 | 20 | 7 | | | | | 20 | | | |
| 4 | 29th st. bet. P and Q st. NW..... | | 30 | | 10 | | | | | 30 | | | |
| 5 | Cor. 12th and L st. NW..... | | 12 | 8 | | | | 80 | | | | | |
| 9 | 29th bet. P and Q sts. NW..... | | 120 | 200 | 53 | | | | | 120 | | | |
| 10 | { 13th bet. U and V sts. NW..... | 15 | 104 | 136 | 47 | | | | | 147 | | | |
| 11 | { V st. bet. 13th and 14th NW..... | 92 | 92 | 143 | 41 | | | | | | | | |
| | Harrison bet. Anacostia and Fillmore NW..... | | | | | | | | | | | | |
| 12 | 2d st. bet. M and N and Del. av. SW..... | 700 | 947 | 982 | 315 | | | | | 947 | | | |
| 13 | Alley in sq. B NW..... | | | | 3 | 44 | | | | | | | |
| 14 | 29th st. bet. P and Q NW..... | 20 | 180 | 300 | 60 | | | | | 180 | | | |
| 16 | T st. bet. 8th and 9th NW..... | 42 | 122 | 340 | 63 | | | | | 189 | | | |
| 19 | N. front of sq. 737 SE..... | 456 | 410 | 361 | 136 | | | | | 410 | | | |
| 20 | 433 C st. NW..... | | | | | | | 35 | | | | | |
| 21 | 918 Pa. ave. NW..... | | | | | | | 60 | | | | | |
| 22 | 916 Pa. ave NW..... | | | | | | | 46 | | | | | |
| 23 | Lot 21 blk. Howard University..... | 10 | 100 | 22 | 33 | | | | | 100 | | | |
| 24 | 2014 13th st. NW..... | | 20 | 20 | 7 | | | | | 20 | | | |
| 25 | Cor 4th and G st. NE..... | 185 | 130 | 170 | 44 | | | | | 130 | | | |
| 26 | Cor 9th and T NW..... | | | 66 | | | | | | | | | |
| 27 | 9th st. bet. C and D SE..... | | 102 | 116 | 37 | | | | | 92 | | | |
| 29 | 22d st. bet. P and Q NW..... | 440 | 487 | 520 | 169 | | | | | 497 | | | |
| 34 | 1333 U st. NW..... | | 20 | 17 | 7 | | | | | 20 | | | |
| 35 | Lot 14, sq. No. 1020 SE..... | 26 | 51 | 40 | 14 | | | | | 41 | | | |
| 39 | 10th st. bet. G and Grant NW..... | | 8 | 313 | | | | | | | | | |
| 41 | 1408 81st NW..... | | | 43 | | | | | | | | | |
| 43 | Area walls, No. 620 5th NW..... | | | 16 | | | | | | | | | |
| 44 | 2516 P st. NW..... | | | 10 | | | | | | | | | |
| 45 | 1014 to 1032 S. Cpt. SE..... | | | 83 | | | | | | | | | |
| 46 | Pleasant and Valley, Anacostia..... | 263 | 984 | 648 | 328 | | | | | | | | |
| 47 | Fillmore bet. Jeff. and Pleasant, Anacostia..... | 128 | 278 | 196 | 99 | | | | | | | | |
| 48 | 908, 910, 912, and 914 G st. NW +..... | | | | | | | | | | | | |
| 49 | L st. bet. N. Cap. and 1st st. NW..... | | 140 | 140 | 46 | | | | | 140 | | | |
| 54 | 1219 K NW..... | | | | | | | 63 | | | | | |
| 55 | 27th bet. I and K..... | | 55 | 50 | 13 | | | | | 43 | | | |
| 56 | Cor. 7th and Cor. sts. NW..... | | | 38 | | | | | | | | | |
| 60 | Cor 17th and Market Space NW..... | | 198 | | | | | | | | | 1 | |
| 61 | 632 4th st. NW..... | | | 48 | | | | | | | | | |
| 67 | 12 to 13 Wylie, bet. H & I & K st. NW..... | 1,013 | 1,870 | 1,620 | 548 | | | | | 1,644 | | | |
| 68 | 27th st. bet. I and K NW..... | | 33 | 14 | 3 | | | | | 13 | | | |
| 70 | Champlain ave. NW..... | 327 | 626 | 418 | 480 | | | | | 617 | | | |
| 71 | 1232 20th st. NW..... | | | | | | | | | | | | |
| 74 | 904 and 906 22d NW..... | | | 52 | | | | 26 | | | | | |
| 75 | 610 5th st. NW..... | | | 21 | | | | | | | | | |
| 76 | Champlain ave NW..... | 150 | 287 | 226 | 97 | | | | | 287 | | | |
| 78 | Fenton Place..... | 490 | 145 | 506 | 151 | | | | | 145 | | | |
| 80 | 2207 H NW..... | | 27 | | | | | | | | | | |
| 81 | Champlain ave. NW..... | 138 | 163 | 121 | 53 | | | | | 162 | | | |
| 82 | Alley sq. S. of 104..... | 10 | | | | | | 55 | | | | | |
| 83 | Alley sq. 183 NW..... | 58 | | | 174 | | | | | 110 | | | |
| 84 | Alley sq. 577 SW..... | 382 | 32 | | 1,143 | | | | | 547 | 18 | | |
| 85 | Alley sq. 845 SE..... | 244 | | | | | | | | | | | |
| 88 | Marion st. bet. P and Q NW..... | 15 | 348 | 464 | 130 | | 201 | | | 372 | | | |
| 89 | Champlain ave. NW..... | 234 | 130 | 190 | 65 | | | | | 193 | | | |
| 95 | 810 7th st. NW..... | 176 | 317 | 33 | 100 | | | | | 307 | | | |
| 96 | Vermont ave., bet. U and V NW..... | | | 297 | | | | | | | | | |
| 102 | 1612-14 19th NW..... | | | | | | | 47 | | | | | |
| 103 | Cor. 2d and B NW..... | | | | | | | | | | | | |
| 104 | 1616 19th NW..... | | | 54 | | | | | | | | | |
| 107 | 7th st. bet. A and B SE..... | | 250 | 346 | 81 | | | 24 | | 250 | | | |
| 108 | Lot 2, sq. 975 SE..... | | 53 | 60 | 18 | | | | | 53 | | | |
| 109 | Valley bet. Pleasant and High. Anacostia..... | 236 | 944 | 105 | 310 | | | | | | | | |
| 110 | Alley sq. 140 NW..... | 15 | | | 163 | | | | | 115 | | | |

* Work done by M. Shea.

APPENDIX 20b.—Surface permit work.

| Estimated cost of labor. | Cost of material. | | | Total cost. | Cost under estimate. | For whom done. | Overseer. |
|--------------------------|-------------------|--------------|-----------------|-------------|----------------------|---------------------|--------------|
| | Cost of labor. | Permit fund. | Property owner. | | | | |
| \$129 00 | \$55 50 | \$210 20 | \$49 60 | \$315 30 | \$23 90 | J. M. Young | Calhoun. |
| 10 65 | 10 65 | 3 56 | | 14 21 | | W. Warring | Walters. |
| 21 30 | 21 30 | 37 93 | | 59 23 | | D. Jackson | Calhoun. |
| 41 50 | 28 75 | 10 24 | \$129 94 | 168 93 | 2 51 | J. T. Lenman | Do. |
| 87 20 | 79 15 | 137 84 | | 216 99 | 8 05 | S. T. Brown | McMurray. |
| 47 80 | 47 80 | 15 13 | | 62 93 | | Wm. Warring | Walters. |
| 82 06 | 80 68 | | 97 12 | 177 80 | 1 38 | J. J. Appich | Cooksey. |
| 625 37 | 552 54 | 1, 134 91 | | 1, 687 45 | 72 83 | Ed. Temple | Do. |
| 45 00 | 23 23 | 77 54 | 15 56 | 116 33 | 6 21 | F. Hume | Calhoun. |
| 126 40 | 110 96 | 194 30 | | 305 26 | 15 44 | J. T. Birch | McMurray. |
| 151 27 | 117 15 | 72 98 | | 190 13 | 34 12 | B. H. Warner | Do. |
| 316 23 | 313 87 | 130 83 | 276 05 | 720 75 | 2 36 | A. Fisher | Calhoun. |
| 17 50 | 10 00 | 30 85 | 5 45 | 46 30 | 2 05 | J. E. Dexter | Do. |
| 23 17 | 20 00 | 40 75 | | 60 75 | 3 17 | S. Cross | Do. |
| 30 00 | 13 50 | 54 65 | 14 24 | 82 40 | 2 25 | H. Bernheimer | Do. |
| 44 00 | 44 00 | 65 62 | | 109 62 | | E. C. Bartlett | Walters. |
| 10 15 | 10 15 | | | 10 15 | | F. Weider | Do. |
| 89 20 | 89 20 | 163 71 | | 252 91 | | Davidson & Davidson | Calhoun. |
| 11 25 | 9 84 | 16 07 | | 25 91 | 1 41 | G. Henderson | McMurray. |
| 52 74 | 52 74 | 30 77 | | 83 51 | | Danenhower & Son | Calhoun. |
| 11 81 | 50 00 | 218 05 | 394 00 | 662 05 | | J. C. Hillyer | M. Shea. |
| 28 36 | 28 33 | 40 42 | | 17 34 | 70 | T. Sherwood | Calhoun. |
| 75 00 | 55 04 | 101 46 | | 77 75 | 03 | C. F. Watson | Do. |
| 11 00 | 9 09 | 8 01 | | 156 50 | 19 96 | W. Lambourn | Do. |
| 22 00 | 22 00 | 9 34 | | 17 10 | 1 91 | F. King | McMurray. |
| 3 60 | 1 62 | 4 00 | | 31 34 | | | Bolden. |
| 23 50 | 20 20 | 31 77 | | 5 62 | 1 98 | D. J. Cotter | McMurray. |
| 480 70 | 480 70 | 886 34 | | 51 97 | 3 30 | J. H. Grant | Calhoun. |
| 183 40 | 161 83 | 257 98 | | 1, 367 04 | | H. A. Griswald | Cooksey. |
| | | | | 419 81 | 21 57 | do | Do. |
| | | 47 80 | | 47 80 | | J. H. McGill | J. H. McGill |
| 70 30 | 70 30 | 36 49 | | 106 79 | | T. J. King | McMurray. |
| 31 00 | 17 91 | 10 35 | 56 54 | 84 80 | 2 74 | J. W. Orme | Calhoun. |
| 27 95 | 23 98 | 55 29 | | 79 27 | 3 97 | Swormstedt & Brady | McMurray. |
| 8 50 | 6 81 | 9 79 | | 16 60 | 1 69 | A. G. Heaton | Morrison. |
| 26 34 | 26 34 | 33 17 | | 59 51 | | A. Saks & Co. | Calhoun. |
| 12 50 | 9 69 | 16 91 | | 26 50 | 2 91 | C. P. Miller | Do. |
| 860 94 | 860 94 | 1, 723 85 | | 2, 584 79 | | Wash. Brick Ma Co | Cooksey. |
| 9 29 | 6 82 | 15 81 | | 22 63 | 1 47 | S. Barnes | McMurray. |
| 400 27 | 400 27 | 585 28 | | 985 55 | | William Linkins | Walters. |
| 13 02 | 7 57 | 18 69 | 362 22 37 | 33 56 | 1 83 | James Butler | Calhoun. |
| 14 00 | 14 00 | 12 98 | | 32 69 | | Robert Boyd | McMurray. |
| 9 00 | | 30 35 | | 21 98 | | W. H. Burnside | Bolden. |
| 167 69 | 167 70 | 184 35 | | 472 04 | | D. Crammer | Walters. |
| 164 75 | 152 51 | 280 09 | | 432 63 | 12 24 | B. H. Warner | McMurray. |
| 6 25 | 5 55 | 8 45 | | 14 00 | 70 | S. Kane | Dillon. |
| 88 75 | 87 87 | 156 16 | | 244 03 | 88 | A. P. Fardon | Walters. |
| 38 50 | 25 25 | 7 35 | 65 20 | 97 80 | 5 90 | F. V. Green | Calhoun. |
| 57 66 | 57 66 | 21 65 | | 79 31 | | T. L. Riggs | McMurray. |
| 392 82 | 296 60 | 169 67 | 4 32 | 470 59 | 96 22 | S. Norment | Calhoun. |
| 176 00 | 128 64 | 3 83 | 264 97 | 397 44 | 43 53 | Danenhower & Son | Dillon. |
| 211 56 | 206 41 | 464 08 | | 670 49 | 5 15 | Duvall & Marr | Walters. |
| 103 75 | 103 75 | 164 56 | | 268 31 | | J. O. Brien | Do. |
| 8 00 | 7 57 | 10 68 | | 18 25 | 43 | S. E. Herbert | Calhoun. |
| 182 00 | 166 14 | 71 73 | | 237 87 | 15 80 | D. B. Groff | Walters. |
| 26 50 | 18 43 | 6 96 | 50 79 | 76 18 | 1 11 | Mrs. Okie | Calhoun. |
| 11 75 | 11 75 | 15 84 | | 27 59 | | P. Phillips | Do. |
| 13 50 | 8 08 | 3 89 | 23 93 | 35 90 | 1 53 | M. Smith | Do. |
| 135 85 | 127 26 | 80 00 | | 216 26 | 8 59 | B. Charlton & Co | Do. |
| 42 53 | 42 53 | 56 03 | | 99 16 | | G. T. Sheppard | Do. |
| 296 00 | 296 00 | 666 31 | | 962 31 | | H. A. Griswald | Cooksey. |
| 43 40 | 43 40 | 21 84 | | 65 24 | | J. Bennett | Calhoun. |

† Work done by J. H. McGill.

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APPENDIX 20b.—Surface permit work—Continued.

| Number. | Location | Grading (cubic yards). | Curb set (lineal feet). | Brick sidewalk (square yards). | Cobble or rubble (square yards). | Granite block (square yards). | Asphalt block roadway (square yards). | Asphalt block sidewalk (square yards). | Macadam (square yards). | Flagging (lineal feet). | Sewer pipe (lineal feet). | Traps and drops (number). | Asphalt tile sidewalk (square yards). |
|---------|---|------------------------|-------------------------|--------------------------------|----------------------------------|-------------------------------|---------------------------------------|--|-------------------------|-------------------------|---------------------------|---------------------------|---------------------------------------|
| 111 | 15th st. extd. NW | 196 | 161 | 124 | 57 | | | | | 170 | | | |
| 112 | Alley sq. 702 SE | 500 | | | 776 | | | | | 423 | | | |
| 116 | Corcoran bet. 16 and 17 NW | | | | | | | | | 240 | | | |
| 117 | Lots 47-8-9, sq. 621 NW | 5 | 70 | 60 | 30 | | | | | 70 | | | |
| 118 | Water st. near 31st NW | 8 | 45 | | | 39 | | | | 19 | | | |
| 120 | 29 L st. NW | 34 | 19 | 19 | 6 | | | | | 109 | | | |
| 121 | Alley sq. 239 NW | 702 | | | 135 | | | | | 6 | 24 | 2 | |
| 122 | Alley sq. 1003 NE | | | | | | 1155 | | | | | | |
| 123 | 1642-4 Conn. ave. NW | | | 108 | | | | | | | | | |
| 124 | N st. bet. 17 and 18 NW | | | 70 | | | | | | | | | |
| 125 | Alley sq. 67 NW | 165 | | 103 | 37 | | 347 | | | | | | |
| 128 | 18th st. bet. S and T NW | 15 | 121 | | | | | | | 110 | | | |
| 135 | 454 Pa. ave. NW | | | | 59 | 20 | | 58 | | 76 | | | |
| 136 | Fenton Place NE | | 76 | | 52 | | | | | | | | |
| 137 | 611 7th st. NW | | | 26 | | | | | | | | | |
| 138 | Cor. 32d and O sts. NW | | | | | | | | | | | | |
| 139 | 227 Pa. ave. SE | | | | | | | 38 | | | | | |
| 141 | 8th st. bet. Bdv. and Grant NW | 8 | | 89 | | | | | | | | | |
| 142 | 1236, 1238 Madison st. NW | | 25 | 22 | | | | | | | | | |
| 143 | 462 Pa. ave. NW | | | | | | | 63 | | | | | |
| 144 | 456 Pa. ave. NW | | | | | | | 67 | | | | | |
| 145 | Wylie st. bet. 12th and 13th NE | 293 | | 25 | 175 | | 50 | 881 | | 290 | | | |
| 146 | 31st and M NW | | | | | | | 30 | | | | | |
| 147 | 464 Pa. ave. NW | | | | | | | 64 | | | | | |
| 150 | 1706 E NW | | | 29 | | | | | | | | | |
| 156 | 3112, 3114 Gay NW | | | 84 | | | | | | | | | |
| 157 | 1020 14th NW | | | | | | 22 | 29 | | | | | |
| 158 | 1601 18th NW | | | 45 | | | | | | | | | |
| 159 | Wash. bet. Pierce and Fillmore, Anacostia.* | 82 | 121 | 210 | 46 | | | | | 123 | | | |
| 161 | 3101, 3103 M st. NW | | | | | | | 73 | | | | | |
| 162 | Cor. N. J. ave. and G NW | 13 | | 113 | | | | | | | | | |
| 163 | 1913 35th NW | | | 50 | | | | | | | | | |
| 164 | C st. bet. 7th and 8th NE | 10 | 27 | 33 | 10 | | | | | 27 | | | |
| 165 | 31st and L NW | | 19 | 19 | 6 | | | | | 19 | | | |
| 166 | 33d and L NW | | 12 | 12 | 4 | | | | | 12 | | | |
| 167 | 35th and L NW | | 12 | 12 | 4 | | | | | 12 | | | |
| 168 | L bet. N. J. ave. and 1st NW | 25 | 110 | 90 | 33 | | | | | 110 | | | |
| 169 | B st. bet. 8th and 9th SE | 86 | 66 | 68 | 22 | | | | | 66 | | | |
| 170 | Alley sq. 737 SE | 60 | | | 330 | | | | | 330 | | | |
| 171 | 1234 Madison NW | | 10 | 5 | | | | | | | | | |
| 177 | Alley sq. 76 NW | 146 | | | | | 220 | | | | | | |
| 181 | 2210 to 2224 H NW | | 31 | 383 | 4 | | | | | 30 | | | |
| 183 | S. Cap. st. bet. G and H SE | 100 | | | 694 | | | | | | | | |
| 184 | Alley sq. 509 NW | 120 | | | | | | | | | | | |
| 185 | Q st. bet. 21st and 22d NW | | | 311 | | | | | | | | | |
| 187 | Cor. 14th and V sts. NW | | 85 | 156 | 28 | | | | | 85 | | | |
| 188 | 25th bet. I and K NW | | 50 | 6 | 17 | | | | | 50 | | | |
| 189 | C st. bet. 11th and 12 NE | 22 | 43 | 76 | 18 | | | | | 49 | | | |
| 192 | Pa. ave. bet. 24th and 25th NW | 3 | | 131 | | | | | | | | | |
| 194 | 13th st. bet. T and U NW | 16 | | 90 | 30 | | | | | 90 | | | |
| 197 | 1801 F NW | | 50 | 67 | | | | | | | | | |
| 199 | L st. bet. N. J. ave. and 1st NW | 15 | 73 | 104 | 25 | | | | | 73 | | | |
| 200 | O st. NW, High School to 7th* | 40 | | 342 | | | | | | | | | |
| 202 | Wittberger bet. S and T. NW | 52 | 126 | 70 | 42 | | | | | 126 | | | |
| 203 | Champlain ave NW | 57 | 70 | 90 | 23 | | | | | 70 | | | |
| 204 | Alley sq. 253 NW | 50 | | | 190 | | | | | 152 | | | |
| 205 | 1508 R st. NW | | 18 | 24 | | | | | | | | | |
| 206 | K st. bet. 20th and 21st NW† | | | | | 149 | | | | | | | |
| 207 | Alley sq. 373 SE | | | | | | | | | | | | |
| 208 | H st. bet. 3d and 4th NW | 211 | 9 | 5 | | | 271 | | | 9 | | | |
| 209 | 9th st. bet. E. Cap. and A SE | 22 | 50 | 30 | 17 | | | | | 50 | | | |
| 210 | Bdv. bet. 20th and 21st NW | 66 | 98 | 100 | 33 | | | | | 98 | | | |
| 211 | Valley bet. O and Road NW | 40 | 103 | 57 | 34 | | | | | 103 | | | |
| 212 | Alley sq. 92 NW | | | | | | | 300 | | | | | |
| 213 | 1800 F st. NW | 390 | | | | | | | | | | | 106 |
| 214 | 632 Pa. ave. NW | | 100 | | | | | | | | | | 47 |

*School fund.

†Market Company.

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APPENDIX 20b.—Surface permit work--Continued.

| Estimated cost of labor. | Cost of material. | | | | Total cost. | Cost under estimate. | For whom done. | Overseer. |
|--------------------------|-------------------|--------------|-----------------|----------|-------------|----------------------|---------------------------|-----------|
| | Cost of labor. | Permit fund. | Property owner. | On hand. | | | | |
| \$111 75 | \$111 75 | \$181 15 | | | \$202 90 | | J. F. Waggaman | Walters. |
| 375 68 | 375 68 | 167 08 | | | 542 76 | | P. Maloney | McMurray. |
| 20 00 | 20 00 | | | | 88 64 | | J. Lynch | Morrison. |
| 48 38 | 46 32 | 27 66 | | \$68 64 | 73 98 | \$2 06 | G. J. Mueller | McMurray. |
| 40 20 | 35 02 | 0 80 | \$4 58 | 73 30 | 123 50 | | J. D. Bartlett | Calhoun. |
| 10 10 | 10 00 | | | | 16 76 | 10 | N. Drummond | McMurray. |
| 39 12 | 39 12 | 25 14 | | | 64 26 | | C. V. Riley | Walters. |
| 782 33 | 618 86 | 130 12 | 147 01 | 433 04 | 2,329 03 | 16 46 | Washington Brk. Ma. Co. | Cooksey. |
| 27 25 | 25 62 | 46 99 | | | 72 61 | 1 63 | C. J. Train | Calhoun. |
| 21 00 | 18 18 | 31 07 | | | 49 25 | 2 82 | William Ballantyne | Do. |
| 245 00 | 210 08 | 12 60 | 31 62 | 447 72 | 702 02 | 3 30 | C. G. Payne | Walters. |
| 58 91 | 58 91 | 144 07 | | | 202 98 | | M. O'Brien | Do. |
| 29 00 | 14 89 | 5 25 | 12 65 | 49 82 | 82 61 | 1 46 | F. Hume | Calhoun. |
| 38 32 | 29 72 | 76 38 | | | 106 10 | 8 60 | T. Yates | McMurray. |
| 13 25 | 12 87 | 21 30 | | | 34 17 | 38 | Wm. Schwing | Calhoun. |
| 9 00 | 8 58 | 21 84 | | | 30 42 | 42 | F. Renshaw | Do. |
| 19 00 | 10 00 | 3 15 | 8 19 | 33 28 | 54 62 | 81 | P. Maloney | Do. |
| 19 00 | 17 17 | 32 11 | | | 49 28 | 1 83 | L. Beyer | Do. |
| 5 50 | 5 50 | 9 22 | | | 14 72 | | J. Bradford | Do. |
| 31 50 | 18 18 | 5 25 | 12 33 | 56 66 | 92 42 | 99 | J. Fegun | Do. |
| 33 50 | 16 91 | 6 30 | 15 01 | 57 54 | 95 76 | 1 58 | J. E. Young | Cooksey. |
| 611 60 | 392 05 | 75 00 | | | 467 05 | 219 53 | W. B. M. Co. | Calhoun. |
| 14 00 | 8 70 | 4 20 | 5 30 | 23 78 | 41 98 | | M. L. Cropley | Do. |
| 32 00 | 15 90 | 5 69 | 14 39 | 54 70 | 90 59 | 1 71 | T. E. Young | Do. |
| 7 25 | 6 81 | 12 24 | | | 19 05 | 44 | J. P. Loveday | Do. |
| 20 00 | 18 18 | 33 70 | | | 51 88 | 1 82 | W. J. King | Do. |
| 29 35 | 18 43 | 4 90 | 9 56 | 51 08 | 83 97 | 1 36 | J. Miller | Do. |
| 10 23 | 10 25 | 17 99 | | | 28 24 | | G. P. Van Wye | Do. |
| 73 25 | 73 25 | 183 92 | | | 257 17 | | Appc. for public schools. | Cooksey. |
| 37 00 | 20 95 | 69 25 | 13 68 | | 103 88 | 2 37 | A. B. and R. B. Cropley | Calhoun. |
| 21 50 | 20 69 | 36 18 | | | 56 87 | 81 | R. A. Dove | Do. |
| 17 12 | 12 87 | 17 74 | 4 45 | | 35 06 | | J. L. Weaver | Do. |
| 13 35 | 13 35 | 34 36 | | | 47 71 | | G. Brown | Cooksey. |
| 10 00 | 9 84 | 8 64 | | | 18 52 | 16 | S. Bundy | Calhoun. |
| 6 16 | 6 16 | 5 05 | | | 11 21 | | J. Fitzgerald | Do. |
| 6 16 | 6 16 | 5 05 | | | 11 21 | | W. H. Brandon | Do. |
| 48 15 | 48 15 | 49 16 | | | 97 31 | | E. Daly | Do. |
| 40 00 | 40 00 | 47 31 | | | 87 31 | | J. D. Croissart | Cooksey. |
| 129 25 | 129 25 | 85 35 | | | 214 60 | | A. Fisher | Do. |
| 3 00 | 3 00 | 4 43 | | | 7 43 | | C. H. Smith | Calhoun. |
| 108 85 | 100 79 | 390 40 | | | 491 19 | 8 06 | J. Crilly | Do. |
| 62 75 | 53 65 | 102 58 | | | 156 23 | 9 10 | Samuel Bacon | Walters. |
| 177 50 | 176 48 | | | | 176 48 | 1 02 | Balto. and P. R. R. Co. | McMurray. |
| 30 00 | 30 00 | | | | 30 00 | | A. Gantz | Morrison. |
| 45 75 | 44 54 | 83 11 | | | 127 65 | 1 21 | R. I. Flennning | Calhoun. |
| 60 00 | 59 08 | 68 10 | | | 127 18 | 92 | F. I. Tibbetts | Do. |
| 24 50 | 24 50 | 22 73 | | | 47 23 | | Danenhowe & Son | Do. |
| 30 07 | 30 07 | 63 20 | | | 93 27 | | F. O. Beckett | Do. |
| 31 25 | 19 69 | 52 32 | | | 72 02 | 11 56 | Wm. Fletcher | Walters. |
| 38 52 | 38 50 | 18 51 | | | 57 01 | 02 | Pettit & Dripps | Calhoun. |
| 13 75 | 13 75 | 32 11 | | | 45 86 | | W. T. Carroll | Do. |
| 33 01 | 33 01 | 43 37 | | | 76 38 | | D. Reardou | Do. |
| 40 77 | 49 77 | 34 83 | | | 127 81 | | Public schools. | Do. |
| 35 80 | 35 30 | 92 56 | | | 84 60 | | C. Jordan | Do. |
| 72 34 | 72 34 | 48 78 | | | 127 86 | 50 | M. Connors | Dillon. |
| 8 15 | 8 08 | 2 80 | | | 121 12 | 07 | W. C. Duvall | Do. |
| 175 69 | 163 58 | 155 90 | 157 50 | | 10 88 | | Miss Jones | Calhoun. |
| 25 50 | 24 36 | 467 81 | | | 373 90 | | Inspector Buildings | Do. |
| 40 77 | 40 77 | 86 56 | | | 631 39 | 12 11 | Swormstedt & Brady | Cooksey. |
| 50 00 | 50 00 | 10 50 | | | 110 92 | 1 14 | P. N. Dyett | Do. |
| 41 54 | 38 82 | 107 71 | | | 51 27 | | A. C. Clark | Do. |
| 243 38 | 192 19 | 486 76 | 51 19 | | 126 73 | 3 22 | J. F. Waggaman | Calhoun. |
| 28 43 | 28 43 | 164 85 | | | 146 03 | | N. D. Lerner | Do. |
| 30 50 | 18 73 | 59 00 | 10 78 | | 730 14 | | Admiral Crosby | Do. |
| | | | | | 193 28 | | W. B. Webb | Do. |
| | | | | | 88 51 | 99 | N. H. Shea | Do. |

APPENDIX 20b.—Surface permit work—Continued.

| Number. | Location. | Grading (cubic yards). | Curb set (linear feet). | Brick sidewalk (square yards). | Cobble or rubble (square yards). | Granite block (square yards). | Asphalt block roadway (square yards). | Asphalt block sidewalk (square yards). | Macadam (square yards). | Flagging (linear feet). | Sewer pipe (linear feet). | Traps and drops (number). | Asphalt tile sidewalk (square yards). |
|---------|--------------------------------------|------------------------|-------------------------|--------------------------------|----------------------------------|-------------------------------|---------------------------------------|--|-------------------------|-------------------------|---------------------------|---------------------------|---------------------------------------|
| 216 | Park st. 14th and 16th NW | | 77 | 54 | 26 | | | | | 77 | | | |
| 218 | 1635 K st. NW | | | | | | | | | | | | |
| 220 | Lots 7, 8, 10, 11 and 12 sq. 880 SE | 45 | 95 | 73 | 32 | | | | | 95 | | | |
| 221 | Cleveland ave., W and Bdy. NW | | 940 | 902 | | | 1,207 | | | | | | |
| 224 | 1320 N. Y. ave NW | | 25 | | | | | | | | | | |
| 229 | 5050 M st. NW | | | | | | | | | | | | |
| 230 | Vermont ave. bet. S and T NW | | | 116 | | | | | | | | | |
| 231 | P st., Del. ave., and 43 SW | 1,692 | 467 | 333 | 142 | | | | | 427 | | | |
| 232 | 15th Ext. Erie and Prospect | | 50 | 37 | 17 | | | | | 50 | | | |
| 233 | do | | 25 | 20 | 9 | | | | | 25 | | | |
| 234 | 18th st. bet. P and Q NW | 77 | | | | | | 178 | | | | | |
| 238 | W st. bet. 14th and 15th NW | | 40 | 60 | | | | | | 40 | | | |
| 239 | D st. bet. 4th and 5th NE | 69 | 100 | 100 | 34 | | | | | 100 | | | |
| 241 | 7th st. bet. S and T NW | | | 54 | | | | | | 100 | | | |
| 246 | Wash. st. bet. 4th and 5th NW | 23 | | 150 | | | | | | | | | |
| 247 | L st. bet. N. Cap. and 1st NE | | 103 | 82 | 30 | | | | | 103 | | | |
| 248 | N st. bet. 14th and 15th NW | | | 60 | | | | | | | | | |
| 249 | Cor. 14th and N. Y. ave. NW | | 18 | | | | | | | | | | |
| 250 | Alley sq. 67 NW | | | | | | 460 | | | | | | |
| 251 | K st. bet. 10th and 17th NW | | | | | | | | | | | | |
| 253 | Marion bet. 15th and 16th NW | | 63 | 70 | 12 | | | | | 63 | | | |
| 254 | K bet. 13th and 14th NW | 3 | | 56 | | | | | | | | | |
| 255 | Alley sq. 759 NW | 90 | | | | | 236 | | | | | | |
| 256 | Sixth bet. Pomeroy and Turnbull | | 56 | 212 | 12 | | | | | 56 | | | |
| 257 | 819 and 821 7th st. NW | | | 39 | | | | | | | | | |
| 258 | K bet. 16th and 17th sts. NW | | | | | | | | | | | | 32 |
| 259 | do | | | | | | | | | | | | 32 |
| 264 | 3125 M st. NW | | | 2 | | | | | | | | | 36 |
| 266 | Alley sq. 868 NE | | | | | | 642 | | | | | | |
| 267 | 22d st. bet. M and N NW | | 60 | 60 | 20 | | | | | 60 | | | |
| 268 | Alley sq. 4 NW | 89 | | | | | 152 | | | | | | |
| 271 | 2047 7th st. NW | | | 6 | | | | | | | | | |
| 272 | Alley sq. 241 NW | 102 | | | | | 204 | | | | | | |
| 275 | W st. bet. 13th and Cleveland NW | 75 | 159 | 155 | 68 | | | | | 204 | | | |
| 278 | S st. between Market and Franklin NW | 44 | 70 | 54 | 23 | | | | | 60 | | | |
| 282 | L st. bet. N. Cap. and N NW | 6 | 40 | 48 | 13 | | | | | 40 | | | |
| 287 | do | | 155 | 155 | 52 | | | | | 155 | | | |
| 288 | Riggs bet. 13th and 14th NW | 660 | 1,179 | | | | 2,030 | | | | | | |
| 290 | M st., 31st and 32d NW | 10 | | 5 | | | | | | | | | |
| 291 | M st., 32d and 33d NW | 14 | 40 | 7 | | | | | | | | | 36 |
| 292 | do | 49 | 42 | | | | | | | | | | |
| 294 | A st. bet. 2d and 3d SE | | | | | | | 194 | | | | | |
| 295 | 708 C st. NE | | 15 | 15 | 5 | | | | | | | | 27 |
| 296 | A st. bet. 6th and 7th NE | | | | | | 39 | | | 15 | | | |
| 299 | Alley sq. 868 NE | | | | | | 56 | | | | | | |
| 300 | Tenn. ave., B and 12th NE | 800 | 1,370 | 1,378 | 456 | | | | | 1,369 | | | |
| 301 | Alley sq. 868 NE | | | | | | 39 | | | | | | |
| 304 | do | | | | | | 43 | | | | | | |
| 308 | Half st. bet. N and O SW | | 611 | 551 | 196 | | | | | | | | |
| 311 | Alley sq. 42 NW | 283 | | | | | 427 | | | 588 | | | |
| 312 | 11th st. bet. A and B NE | 44 | 96 | 96 | 32 | | | | | 96 | | | |
| 313 | C st. bet. 43 and C NW | | | | | | | 33 | | | | | |
| 314 | Block 39, College Hill | | | | | | | | | | | | |
| 316 | P bet. 7th and 18th NW | 38 | 180 | 244 | | | | | | 200 | | | |
| 318 | 19th and R sts. NW | | | | | | | | | | | | |
| 319 | L st. bet. N. Cap. and 1st NW | 25 | | 179 | | | | | | | | | |
| 320 | 738 7th st. NW | | 59 | 59 | 13 | | | | | 59 | | | |
| 321 | Wallach Place NW | | | | | | | | | | | | |
| 324 | N st. bet. 1st and 3d NW | 350 | | | | | 2,075 | | | | | | 33 |
| 325 | NW cor. 9th and D NW | 240 | 439 | 445 | 136 | | | | | 410 | | | |
| 326 | Alley sq. 789 SE | | | | | | | 183 | | | | | 398 |
| 327 | Cor. 31st and O sts. NW | 100 | | | | | | | | | | | |
| 328 | Alley sq. 504 NW | 204 | 212 | | | | | 625 | | 142 | | | 192 |
| 330 | Cor. 1st and L SE | 20 | 136 | 88 | 16 | | | | | | | | |

*Inspection.

APPENDIX 20b.—Surface permit work—Continued.

| Estimated cost of labor. | Cost of labor. | Cost of materials. | | | Total cost. | Cost under estimate. | For whom done. | Overseer. |
|--------------------------|----------------|--------------------|-----------------|----------|-------------|----------------------|--------------------------------|------------|
| | | Permit fund. | Property owner. | On hand. | | | | |
| \$42 20 | \$41 96 | \$20 55 | | | \$122 51 | \$0 24 | C. C. Cole..... | Dillon. |
| 15 46 | 15 40 | 56 60 | | | 72 00 | | J. B. Edmonds..... | Calhoun. |
| 42 92 | 42 42 | 88 32 | | | 130 74 | 50 | Danenhower & Son..... | Cooksey. |
| 1,263 20 | 1,265 29 | 3,670 24 | | | 4,935 44 | | B. H. Warner..... | WHCalhoun. |
| 37 00 | 27 27 | 72 40 | \$8 92 | | 108 59 | 81 | Z. T. Sowers..... | Calhoun. |
| 14 00 | 9 22 | 26 20 | 3 88 | | 39 30 | 90 | J. Goddard..... | Do. |
| 73 27 | 27 89 | 10 23 | 44 48 | | 82 60 | 90 | D. B. Groff..... | Do. |
| 581 55 | 480 56 | 536 21 | | \$41 20 | 1,066 97 | 91 99 | John Lynch <i>et al.</i> | Cooksey. |
| 27 50 | 25 50 | 57 00 | | | 78 50 | 2 00 | C. A. Berkley..... | Dillon. |
| 13 75 | 13 33 | 28 39 | | | 41 72 | 42 | W. J. Fearing..... | Do. |
| 49 95 | 44 33 | 357 90 | | | 402 23 | 5 62 | Secretary Manning..... | Calhoun. |
| 24 54 | 17 77 | 48 30 | 5 05 | | 71 12 | 1 72 | P. F. Larnar..... | Dillon. |
| 56 25 | 54 64 | 124 42 | | | 179 06 | 1 61 | Swormstedt & Bradley..... | Cooksey. |
| 13 00 | 11 61 | 22 70 | | | 34 31 | 1 39 | J. E. Turton..... | Calhoun. |
| 102 57 | 33 58 | | 68 99 | | 102 57 | | B. H. Warner..... | Do. |
| 39 75 | 39 39 | 37 28 | | | 76 59 | 36 | C. A. Didden..... | Do. |
| 13 75 | 12 62 | 24 10 | | | 36 72 | 1 13 | Fitch, Fox & Brown..... | Do. |
| 5 00 | 5 00 | 8 30 | | | 13 30 | | A. Gleason..... | Do. |
| | 14 00 | 875 07 | | | 889 07 | | R. I. Flemming..... | M. Shea. |
| 11 55 | 9 96 | 41 55 | | | 51 51 | 1 59 | Wm. Brown..... | Calhoun. |
| 34 09 | 24 78 | 73 16 | | | 97 94 | 9 31 | C. W. Brown..... | Do. |
| 19 95 | 12 59 | 13 48 | 6 05 | | 32 12 | 1 31 | S. C. Pomeroy..... | Cooksey. |
| 81 55 | 81 35 | 649 88 | | | 731 23 | 20 | George M. Oyster..... | Calhoun. |
| 78 56 | 69 53 | 148 98 | | | 218 51 | 9 03 | W. A. Stewart..... | Do. |
| 9 25 | 9 25 | 15 96 | | | 25 21 | | F. A. Shreeve..... | Do. |
| 11 55 | 9 21 | 41 55 | | | 50 76 | 2 34 | E. D. Cox..... | Do. |
| 11 55 | 9 33 | 99 40 | | | 108 73 | 2 22 | Mrs. Rundlett..... | Do. |
| 10 50 | 10 10 | 46 35 | | | 56 45 | 40 | J. C. Blackford..... | Do. |
| 225 05 | 207 92 | 1,131 90 | | | 1,339 82 | 17 13 | D. W. Oyster..... | Do. |
| 37 00 | 37 00 | 77 45 | | | 114 45 | | Danenhower & Son..... | Do. |
| 60 25 | 60 25 | 302 05 | | | 362 30 | | T. J. King..... | Do. |
| 3 64 | 60 | | 3 04 | | 3 64 | | B. H. Warner..... | Do. |
| 97 70 | 91 40 | 361 20 | | | 452 60 | 6 30 | F. G. Norris..... | Do. |
| 150 00 | 98 34 | 211 14 | | | 309 48 | 51 66 | B. H. Warner..... | WHCalhoun |
| 40 05 | 39 88 | 79 90 | | | 119 78 | 17 | M. Kein..... | RW Calhoun |
| 20 00 | 12 68 | 13 70 | | | 32 38 | | W. Nash..... | Walters. |
| 50 00 | 72 90 | 49 00 | | | 121 90 | 17 10 | J. W. Tyler..... | Calhoun. |
| 807 63 | 807 63 | 3,675 47 | | | 4,483 10 | | Swormstedt & Bradley..... | WHCalhoun |
| 11 20 | 10 97 | 46 95 | | | 57 92 | 23 | A. M. Barr..... | RW Calhoun |
| 27 70 | 27 70 | 7 35 | | | 123 25 | | W. H. & J. R. Lang..... | Cooksey. |
| 85 00 | 74 74 | 16 80 | | 83 20 | 378 54 | 10 26 | G. T. Dunlop..... | Do. |
| 10 00 | 10 00 | 35 80 | | 287 00 | 45 80 | | B. F. Guy..... | Calhoun. |
| 8 20 | 8 20 | 19 23 | | | 27 43 | | Wm. B. Lord..... | Cooksey. |
| 15 20 | 14 64 | 76 02 | | | 90 66 | 56 | E. E. Curry..... | Calhoun. |
| 22 80 | 20 87 | 232 80 | | | 253 67 | 1 93 | Mrs. Thos. Healy..... | Do. |
| 680 45 | 680 45 | 1,791 68 | | | 2,472 13 | | Tolcott <i>et al.</i> | Cooksey. |
| 15 20 | 14 26 | 76 02 | | | 90 28 | 94 | B. Russ..... | Calhoun. |
| 17 20 | 16 02 | 84 70 | | | 100 72 | 1 18 | E. H. Gilston..... | Do. |
| 296 75 | 223 65 | 237 30 | | | 460 95 | 73 10 | A. Richards..... | McMurray. |
| 209 90 | 202 75 | 761 52 | | | 966 27 | 7 15 | P. V. Hagner..... | Calhoun. |
| 44 00 | 42 67 | 1 19 51 | | | 162 18 | 1 33 | E. H. Fowler..... | Cooksey. |
| 13 38 | 13 38 | | | | 13 38 | | J. Young..... | Do. |
| 120 00 | 118 90 | 242 64 | | | 361 54 | 1 10 | E. Berlin..... | Do. |
| | | 17 80 | | | 17 80 | | M. Daly..... | M. Daly. |
| 45 50 | 45 23 | 69 50 | | | 114 73 | 27 | T. Renshaw..... | Calhoun. |
| 28 71 | 28 71 | 28 30 | | | 57 01 | | J. A. Schafer..... | McMurray. |
| 13 33 | 11 61 | 44 70 | | | 56 31 | 1 72 | A. Herman..... | Calhoun. |
| 830 00 | 830 00 | 3,862 10 | | | 4,692 10 | | J. L. Barber..... | WHCalhoun |
| 284 27 | 26 94 | 550 86 | | | 812 80 | 22 33 | L. J. Davis..... | McMurray. |
| 140 00 | 108 05 | 536 40 | | | 644 45 | 31 95 | R. O. Holtzman..... | Calhoun. |
| 88 20 | 87 97 | 331 87 | | | 419 84 | 23 | Levi Woodbury..... | Morrison. |
| 78 00 | 61 73 | 249 30 | | | 311 03 | 16 27 | C. M. Mathews..... | Calhoun. |
| 255 90 | 205 40 | 1,203 70 | | | 1,409 10 | 50 50 | W. G. R. R. Co..... | Cooksey. |
| 30 28 | 30 28 | 117 49 | | | 147 77 | | H. A. Griswold..... | Do. |

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APPENDIX 20b.—Surface permit work—Continued.

| Number. | Location. | Grading (cubic yards). | Curb set (linear feet). | Brick sidewalk (square yards). | Cobble or rubble (square yards). | Granite block (square yards). | Asphalt block roadway (square yards). | Asphalt block sidewalk (square yards). | Macadam (square yards). | Flagging (linear feet). | Sewer pipe (linear feet). | Traps and drops (number). | Asphalt tile sidewalk (square yards). |
|-------------|--------------------------------------|------------------------|-------------------------|--------------------------------|----------------------------------|-------------------------------|---------------------------------------|--|-------------------------|-------------------------|---------------------------|---------------------------|---------------------------------------|
| 332 | 719 and 721 7th st. NW..... | | | | | | | | | | | | 44 |
| 334 | 430 7th st. NW..... | | | | | | | | | | | | 38 |
| 335 | Alley sq. 361 NW..... | 12 | | 45 | | | | | | | | | 122 |
| 336 | Pa. ave. bet. 2d and 3d SE..... | | | | | | | | | | | | |
| 337 | L st. bet. 14th and Vt. ave. NW..... | | | 88 | | | | | | | | | |
| 338 | E st. bet. 6th and 7th SE*..... | | | | | | | | | | | | |
| 339 | Alley sq. 560 NW..... | 42 | | | | | 170 | | | | | | |
| 340 | Alley sq. 992 SE..... | 528 | | 240 | | | | | | | | | |
| 341 | Alley sq. 378 NW..... | | | | | 7 | | | | | | | |
| 342 | Del. ave. and H st. SW..... | | 250 | 254 | 75 | | | | | 222 | | | |
| 343 | Alley sq. 780..... | 143 | | | | | | | | | | | |
| 344 | Riggs st. 13th and 14th NW..... | 800 | | | | | | | | | | | 186 |
| 345 | Alley sq. 758 NE..... | 38 | | | | | | | | | | | |
| 346 | Alley sq. 758 NE..... | 325 | | | | | 556 | | | 24 | | | |
| 347 | 408 D st. NE..... | | 14 | 42 | 11 | | | | | | | | |
| 350 | 1522-24 5th st. NW..... | | | | | | | | | | | | 39 |
| 351 | E st. bet. 1st and 2d NE..... | 25 | 104 | 104 | | | | | | 104 | | | |
| 353 | 1347 L st. NW..... | | | | | | | | | | | | 25 |
| 354 | 1406 L st. NW..... | | | 22 | | | | | | | | | |
| 356 | Alley sq. 510 NW..... | | | | 40 | | | | | 55 | | | |
| 359 | 932-34 F st. NW..... | 6 | | 5 | | | | | | | | | 74 |
| 360 | 718 7th st. NW..... | | | | | | | | | | | | 31 |
| 361 | Cor. 7th and B NW..... | | | | | | | 170 | | | | | |
| 362 | G st. bet. 2d and 3d NE..... | 74 | 233 | 203 | 74 | | | | | 233 | | | |
| 363 | 1427 F st. NW..... | | | | | | | | | | | | 38 |
| 365 | Lots 61 to 66 sq. 359..... | 79 | 94 | 94 | 27 | | | | | 82 | | | |
| 366 | Alley, sq. 184..... | 50 | | | | | 185 | | | | | | |
| 368 | W st. bet. 1st and 3d NW..... | 200 | 508 | 435 | 225 | | | | | | 508 | | |
| 369 | D st. bet. 1st and Canal SW..... | 40 | 80 | 65 | 27 | | | | | | 80 | | |
| Total | | 17,004 | 19,743 | 21,184 | 9,656 | 239 | 11,415 | 2,351 | 881 | 16,888 | 66 | 3 | 1,715 |

* Work done by C. Windsor.

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APPENDIX 20b.—Surface permit work—Continued.

| Estimated cost of labor. | Cost of labor. | Cost of materials. | | | Total cost. | Cost under estimate. | For whom done. | Overseer. |
|--------------------------|----------------|--------------------|-----------------|----------|-------------|----------------------|-------------------------|-------------|
| | | Permit fund. | Property owner. | On hand. | | | | |
| \$16 00 | \$14 64 | \$57 30 | | | \$71 94 | \$1 36 | H. C. Ewald..... | Calhoun. |
| 14 40 | 13 63 | 50 49 | | | 64 11 | 77 | S. Fishman & Son..... | Do. |
| 20 00 | 20 00 | 90 30 | | | 110 30 | | General Meigs..... | Do. |
| 48 00 | 43 41 | 159 45 | | | 202 86 | 4 50 | Wm. M. Galt & Co..... | Do. |
| 21 10 | 20 82 | 37 93 | | | 58 75 | 28 | J. L. Hodge..... | Do. |
| | | 2 93 | | | 2 93 | | C. Windsor..... | C. Windsor. |
| 70 00 | 70 00 | 329 00 | | | 399 00 | | J. L. Edwards..... | Calhoun. |
| 162 24 | 162 24 | 469 77 | | | 632 01 | | G. J. Mueller..... | Do. |
| 10 00 | 8 08 | | | | 8 08 | 1 92 | Stilson Hutchins..... | Morrison. |
| 146 12 | 122 38 | 321 21 | | \$15 00 | 458 59 | 23 74 | F. Leonard..... | Cooksey. |
| 96 00 | 96 00 | | | | 96 00 | | D. Winsor..... | Thompson. |
| 73 60 | 63 75 | 241 80 | | | 305 55 | 9 85 | Swormstedt & Brady..... | Calhoun. |
| 289 90 | 289 90 | 975 80 | | 68 60 | 1,334 30 | | Duncan Thompson..... | Do. |
| 12 52 | 12 52 | 19 84 | | | 32 36 | | Joseph Maco..... | Do. |
| 15 20 | 14 78 | 50 40 | | | 65 16 | 44 | C. Ruppert..... | Morrison. |
| 67 78 | 62 11 | 146 96 | | | 209 07 | 5 65 | Danenhower & Son..... | Calhoun. |
| 10 00 | 9 84 | 33 15 | | | 42 99 | 16 | W. F. Geyer..... | Do. |
| 6 00 | 6 00 | 7 12 | | | 13 12 | | A. M. Coyle..... | Do. |
| 21 00 | 20 64 | | | | 20 64 | 36 | Lewis Barr..... | McMurray. |
| 28 80 | 27 01 | 93 66 | | | 120 67 | 1 79 | Swormstedt & Brady..... | Cooksey. |
| 14 00 | 14 00 | 36 60 | | | 50 60 | | A. Eberly & Sons..... | Calhoun. |
| 60 40 | 54 54 | | | | 255 87 | 5 86 | J. P. Franklin..... | Do. |
| 116 89 | 110 39 | 278 37 | | | 388 76 | 6 50 | E. J. Hill..... | McMurray. |
| 19 20 | 17 42 | 45 48 | | | 62 90 | 1 78 | N. W. Burchell..... | Calhoun. |
| 49 47 | 49 40 | 44 09 | | | 93 49 | 07 | A. McIntosh..... | Cooksey. |
| 92 05 | 78 87 | 359 10 | \$11 41 | | 449 38 | 1 77 | J. B. Edmonds..... | Do. |
| 258 98 | 250 27 | 408 25 | | | 648 52 | 8 71 | Joseph Prather..... | Calhoun. |
| 34 25 | 34 20 | 83 40 | | 5 40 | 123 00 | 05 | P. Smyth..... | Cooksey. |
| 20,378 25 | 18,648 33 | 41,620 66 | 6623 66 | 4,599 02 | 65,491 67 | 1,278 83 | | |

JNO. J. BURKOWS, *Supt. Streets.*

APPENDIX No. 21.

REPORT OF SUPERINTENDENT OF ROADS.

WASHINGTON, D. C., *August 1, 1886.*

COLONEL: I have the honor to submit the following report on county roads for the fiscal year ending June 30, 1886:

| | |
|-------------------------------|-------------|
| Amount of appropriation | \$40,000 00 |
| Amount expended | 39,999 72 |
| Balance | 28 |

As follows, viz:

| | Material. | Labor. | Total. |
|------------------------|------------|------------|------------|
| Eastern district | \$1,629 50 | \$8,168 65 | \$9,798 15 |
| Central district | 1,834 28 | 15,591 96 | 17,426 24 |
| Western district | 1,063 60 | 11,711 64 | 12,775 33 |
| Grand total | | | 39,999 72 |

The paper marked A, and inclosed, shows the amount of money expended on each road during the fiscal year ending June 30, 1886; also amount expended on each road from July 1, 1878, to June 30, 1885; also amount from July 1, 1878, to June 30, 1886.

The sum of \$1,165 was expended for one stone crusher and one extra pair of jaws for the same, and this amount is included in material charged to each district.

Very respectfully,

GEO. N. BEALE,
Superintendent of Roads.

The ENGINEER COMMISSIONER, DISTRICT OF COLUMBIA.

CENTRAL DISTRICT.

| Locality. | From July 1, 1885, to June 30, 1886. | | | From July 1, 1878, to June 30, 1885. | Totals from July 1, 1878, to June 30, 1886. |
|-------------------------|--------------------------------------|----------|----------|--------------------------------------|---|
| | Material. | Labor. | Total. | | |
| A road | | \$170 11 | \$170 11 | \$284 70 | \$454 81 |
| Argyle Mills road | | 2 13 | 2 13 | 1,051 04 | 1,053 17 |
| B road | | | | | |
| Bates road | | 6 62 | 6 62 | 230 54 | 237 16 |
| Benning's road | | 96 11 | 111 11 | 1,828 57 | 1,939 68 |
| Blair road | \$15 00 | | 125 43 | 283 59 | 419 02 |
| Bladensburg road | | 173 07 | 173 07 | 3,351 38 | 5,324 65 |
| Brentwood road | | 234 04 | 234 04 | 1,826 37 | 2,060 61 |
| Brown street | | | | 7 50 | 7 50 |
| Bunker Hill road | 40 05 | 437 03 | 477 08 | 2,608 58 | 3,085 66 |
| Carroll road | | | | 60 75 | 60 75 |
| Central avenue | | | | 210 73 | 210 73 |
| Do | | | | 19 24 | 19 24 |
| Cedar lane | | | | 100 69 | 100 69 |
| Clifton streets | | | | 715 72 | 715 72 |
| Champlain avenue | | | | 12 95 | 2,370 24 |
| Chase road | 193 24 | 2,602 05 | 2,837 29 | 11 99 | 11 99 |
| Codego street | | | | | |
| Columbia road | | 2 50 | 2 50 | 1,112 73 | 1,115 23 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 237

CENTRAL DISTRICT—Continued.

| Locality. | From July 1, 1885, to June 30, 1886. | | | From July 1, 1878, to June 30, 1885. | Totals from July 1, 1878, to June 30, 1886. |
|------------------------------|--------------------------------------|-----------|-----------|--------------------------------------|---|
| | Material. | Labor. | Total. | | |
| Fifth street road | | | | \$174 27 | \$174 27 |
| Fifteenth street road | | | | 3,410 81 | 3,410 81 |
| Fourteenth street road | \$2 00 | \$204 34 | \$206 34 | 2,138 92 | 2,345 26 |
| Grant street | | | | 50 93 | 50 93 |
| Harwood road | | 52 02 | 52 02 | 791 39 | 843 41 |
| Howard street | | 14 37 | 14 37 | 65 24 | 79 61 |
| Keating avenue | | 15 75 | 15 75 | 262 35 | 278 10 |
| Lincoln avenue | 67 60 | 675 73 | 743 33 | 2,612 57 | 3,355 90 |
| Linnaea Hill road | 2 25 | 44 07 | 46 32 | 2,185 15 | 2,231 47 |
| Matthews road | | | | 4 00 | 4 00 |
| Military road | 10 50 | 137 10 | 147 60 | 554 03 | 701 63 |
| Mintwood avenue | 13 50 | 189 96 | 203 46 | | 203 46 |
| Montello subdivision | 15 52 | | 15 52 | 52 35 | 67 87 |
| Mount Olivet road | | | | 135 50 | 135 50 |
| Nineteenth street road | | 55 42 | 55 42 | 702 36 | 757 78 |
| Ninth street road | | 9 06 | 9 06 | 146 05 | 155 11 |
| Oak street | | | | 15 37 | 15 37 |
| Oakland street | | 2 87 | 2 87 | | 2 87 |
| Park street | | 24 00 | 24 00 | 1,294 37 | 1,318 37 |
| Patterson avenue | | | | 432 17 | 432 17 |
| Pine street | | 6 75 | 6 75 | | 6 75 |
| Pomeroy street | | | | 433 90 | 433 90 |
| Princeton street | | | | 131 31 | 131 31 |
| Prospect street | | | | 381 04 | 381 04 |
| Queen's Chapel road | 149 71 | 820 88 | 970 59 | 1,130 27 | 2,100 86 |
| Riggs road | 24 74 | 47 74 | 72 48 | 960 61 | 1,033 09 |
| Rives road | | | | 252 87 | 252 87 |
| Rock Creek Ford road | | 64 | 64 | 121 63 | 122 27 |
| Rock Creek Church road | 558 28 | 5,806 92 | 6,365 20 | 2,575 48 | 8,940 68 |
| Sandy Spring road | | 480 11 | 480 11 | 71 03 | 551 14 |
| Sargent road | | 292 59 | 292 59 | 657 24 | 949 83 |
| Schuetzen Park lane | | | | 362 38 | 362 38 |
| School street | | | | 2 50 | 2 50 |
| Seventh street road | 114 32 | 1,071 16 | 1,185 48 | 49,131 68 | 50,317 16 |
| Sheridan street | | | | 162 05 | 162 05 |
| Sheridan avenue | | | | 2 40 | 2 40 |
| Shepherd road | 24 75 | 324 32 | 349 07 | 916 33 | 1,265 40 |
| Sixteenth street road | | 850 60 | 850 60 | 712 43 | 1,563 03 |
| Sixth street | | | | 144 76 | 144 76 |
| Sligo Mill road | | 70 18 | 70 18 | 67 15 | 137 33 |
| South avenue | | | | 92 09 | 92 09 |
| Spring street | 9 10 | 83 56 | 92 66 | 528 17 | 620 83 |
| Summer street | | | | 364 94 | 364 94 |
| Thirteenth street road | | | | 3,359 01 | 3,359 01 |
| Trumbull street | | | | 171 00 | 171 00 |
| Whitney avenue | | 26 88 | 26 88 | 2,035 82 | 2,062 70 |
| Woodley lane | | | | 1,225 88 | 1,225 88 |
| Yale street | | | | 47 90 | 47 90 |
| Miscellaneous | | 356 35 | 356 25 | 420 50 | 776 85 |
| Material | 591 72 | | 591 72 | 5,067 86 | 5,659 58 |
| Blacksmithing | | | | 169 97 | 169 97 |
| Totals | 1,834 28 | 15,591 96 | 17,426 24 | 102,455 50 | 119,881 74 |

EASTERN DISTRICT.

| | | | | | |
|------------------------|----------|------------|------------|------------|------------|
| Anacostia road | \$591 01 | \$1,255 53 | \$1,846 54 | \$7,555 32 | \$9,401 86 |
| Adams street | | | | 4 75 | 4 75 |
| Benning's road | 40 00 | 319 58 | 359 58 | 2,149 97 | 2,509 55 |
| Bowen road | | 337 38 | 337 38 | 513 78 | 851 16 |
| Central avenue | | 139 49 | 139 49 | 144 12 | 283 61 |
| Fillmore street | | 124 43 | 124 43 | | 124 43 |
| Giesboro' road | | 185 12 | 185 12 | 1,129 45 | 1,314 57 |
| Good Hope road | 48 33 | 1,401 03 | 1,449 36 | 1,234 84 | 2,684 20 |
| Hamilton road | | 426 70 | 426 70 | 620 59 | 1,047 29 |
| Harrison street | | 61 60 | 61 60 | 979 87 | 1,041 47 |
| Howardtown roads | | 220 78 | 220 78 | 1,449 90 | 1,670 68 |
| Jackson street | | | | 6 50 | 6 50 |
| Jefferson street | | | | 8 00 | 8 00 |
| Kelley road | | | | 37 25 | 37 25 |
| Lincoln road | | | | 1 75 | 1 75 |
| Livingston road | | 71 37 | 71 37 | 880 09 | 951 46 |
| Monroe street | 30 40 | 220 00 | 250 40 | 763 29 | 1,013 66 |
| Morris road | | | | 825 67 | 825 67 |

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EASTERN DISTRICT—Continued.

| Locality. | From July 1, 1885, to June 30, 1886. | | | From July 1, 1878, to June 30, 1885. | Totals from July 1, 1878, to June 30, 1886. |
|-------------------------|--------------------------------------|-----------------|-----------------|--------------------------------------|---|
| | Material. | Labor. | Total. | | |
| Naylor road | | \$144 18 | \$144 18 | \$745 76 | \$889 94 |
| Nichols avenue | \$234 54 | 1,836 01 | 2,070 55 | 2,537 87 | 4,608 42 |
| Pierce street | | 71 88 | 71 88 | 348 99 | 348 99 |
| Polk street | | 5 12 | 5 12 | | 71 88 |
| Race-course road | | 38 39 | 38 39 | 239 33 | 244 45 |
| Ridge road | | 75 00 | 221 30 | 388 95 | 427 34 |
| Sheridan avenue | | 23 45 | 23 45 | 620 30 | 841 60 |
| Sheriff road | | 120 52 | 120 52 | 543 72 | 567 17 |
| Stanton avenue | | 59 45 | 59 45 | 460 63 | 581 15 |
| Stephenson avenue | | 82 83 | 82 83 | 103 12 | 162 57 |
| Suit road | | | | 143 09 | 225 92 |
| Sumner street | | | | 178 87 | 178 87 |
| T street | | 24 88 | 24 88 | 6 75 | 31 63 |
| Valley street | | 535 29 | 535 29 | | 535 29 |
| Washington street | | 71 87 | 71 87 | 162 07 | 233 94 |
| Wheeler road | | 37 37 | 37 37 | 521 13 | 558 50 |
| Walker road | | 64 25 | 64 25 | 48 37 | 112 62 |
| Miscellaneous | | 143 85 | 143 85 | 597 93 | 741 78 |
| Material | 610 22 | | 610 22 | 1,609 61 | 2,219 83 |
| Blacksmithing | | | | 30 75 | 30 75 |
| Supervision | | | | 4,500 00 | 4,500 00 |
| Totals | 1,629 50 | 8,168 65 | 9,798 15 | 32,092 35 | 41,890 50 |

WESTERN DISTRICT.

| | | | | | |
|----------------------------|-----------------|------------------|------------------|------------------|------------------|
| Argyle Mill road | | \$45 74 | \$45 74 | \$48 56 | \$94 30 |
| Brookville road | | 41 00 | 41 00 | 1,722 84 | 1,763 84 |
| Broad Branch road | | 269 67 | 269 67 | 1,410 47 | 1,680 14 |
| Canal road | \$4 40 | 378 71 | 383 11 | 1,879 48 | 2,262 59 |
| Chain Bridge road | | 56 85 | 56 85 | 827 31 | 884 16 |
| Chappell road | | 68 06 | 68 06 | 268 80 | 336 86 |
| Daniels road | | 5 00 | 5 00 | 566 25 | 571 25 |
| Falls road | | | | 57 00 | 57 00 |
| Foxhall road | | 379 99 | 379 99 | 858 87 | 1,238 86 |
| Grant road | | 255 60 | 255 60 | 3,086 98 | 3,342 58 |
| Klingle road | 38 75 | 309 77 | 348 52 | 763 78 | 1,112 30 |
| Loughboro' road | | | | 116 45 | 116 45 |
| Military road | 4 40 | 59 00 | 63 40 | 245 40 | 308 80 |
| Milk-House Ford road | | 25 00 | 25 00 | | 25 00 |
| Murdock's Mill road | | 84 77 | 84 77 | 843 53 | 928 30 |
| New Cut road | | 431 24 | 431 24 | 3,328 91 | 3,760 15 |
| Pierce's Mill road | 31 20 | 56 87 | 88 07 | 1,387 66 | 1,475 73 |
| Red Lane road | 15 60 | 123 30 | 138 90 | 156 63 | 295 53 |
| Ridge road | | 22 00 | 22 00 | 276 01 | 298 01 |
| River road | | | | 209 29 | 209 29 |
| Rock Creek Ford road | | | | 92 56 | 92 56 |
| Swartz road | | | | 42 87 | 42 87 |
| Tenallytown road | 258 68 | 8,438 53 | 8,697 21 | 5,712 42 | 14,409 63 |
| Tunlaw road | | 25 60 | 25 60 | 9,250 84 | 9,276 44 |
| Woodley lane | 6 00 | 567 44 | 573 44 | 4,726 57 | 5,300 01 |
| Miscellaneous | | 67 50 | 67 50 | 113 00 | 180 50 |
| Material | 704 66 | | 704 66 | 1,508 89 | 2,213 55 |
| Blacksmithing | | | | 108 61 | 108 61 |
| Supervision | | | | 4,500 00 | 4,500 00 |
| Totals | 1,063 69 | 11,711 64 | 12,775 33 | 44,109 98 | 56,885 31 |

Material (purchased and on hand) used during fiscal year 1886.

| | Barrels cement. | Sewer-pipe, feet. | Loads of gravel. | Arch brick. | Paving brick. | Cover to man-holes. | Iron pipe. | Cubic yards, broken stone. | Coping, feet. | Sand. | Cubic yards stone. | Cubic yards paving. | Lumber. | Blacksmithing. | Painting signs. |
|------------------------|-----------------|-------------------|------------------|-------------|---------------|---------------------|------------|----------------------------|---------------|-------|--------------------|---------------------|---------|----------------|-----------------|
| Eastern district | 75 | 136 | 3,113 | 2,000 | 42,000 | 2 | 118 | 120 | 5 | 136 | 35 | 128 | 96 | 161 | 00 |
| Central district | 66 | 1,877 | 5,816 | 2,000 | 42,000 | 2 | 55 | 26 | 5 | 379 | 2,902 | 105 | 20 | 189 | 35 |
| Western district | 32 | 669 | 288 | 2,000 | 42,000 | 2 | 55 | 144 | 229 | 5 | 515 | 2,935 | 384 | 89 | 459 |
| Totals | 167 | 2,782 | 9,217 | 2,000 | 42,000 | 2 | 55 | 144 | 229 | 5 | 515 | 2,935 | 384 | 89 | 459 |

RECAPITULATION.

| | |
|----------------------------------|------------|
| Central district, material | \$1,834 28 |
| Eastern district, material | 1,629 50 |
| Western district, material | 1,063 69 |
| | 4,527 47 |

APPENDIX No. 22.

REPORT OF SUPERINTENDENT OF WATER DEPARTMENT.

WASHINGTON, D. C., *December 3, 1886.*

COLONEL: I have the honor to transmit herewith the following report of the operations of the water department, compiled from the records of this office, for the fiscal year ending June 30, 1886, under the supervision of Victor McDonald, whom I relieved September 10, 1886:

WATER MAINS.

During the year 1,938 feet of 12-inch, 791 feet of 10-inch, 35,192 feet of 6-inch, and 6,623 feet of 3-inch water-main pipes were laid.

| Location. | Street or avenue. | Streets between. | Size of pipe. | Length of main. |
|--------------|----------------------------------|--|---------------|-----------------|
| | | | <i>Inch.</i> | <i>Lin. ft.</i> |
| Center | First street south | B and Maryland avenue west | 12 | 396 |
| Do | South Capitol street south | Virginia avenue and M street | 12 | 1,542 |
| Do | do | do | 10 | 476 |
| Do | do | M and N streets | 10 | 162 |
| Do | Q street north | Thirty-second and Thirty-third streets west | 10 | 153 |
| Do | First street south | B street and Maryland avenue west | 6 | 52 |
| Do | South Capitol street south | M and N streets | 6 | 165 |
| Do | Q street north | Thirty-second and Thirty-third streets west | 6 | 12 |
| Do | Twelfth street north | W and Boundary streets west | 6 | 525 |
| Do | N street south | Four-and-a-half and Union streets west | 6 | 372 |
| Do | Seventh street north | B and C streets east | 6 | 306 |
| Do | K street north | Third and Fourth streets east | 6 | 492 |
| Do | V street north | Tenth and Eleventh streets west | 6 | 264 |
| Do | N street north | First street and New Jersey avenue west | 6 | 1,116 |
| Do | Wallach street north | Thirteenth and Fourteenth and T and U streets west | 6 | 612 |
| Do | P street north | North Capitol and Boundary streets west | 6 | 715 |
| Do | R street north | Connecticut avenue and Twenty-first street west | 6 | 372 |
| Do | Larch street north | Spruce and Maple streets, Le Droit Park | 6 | 312 |

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| Location. | Street or avenue. | Streets between. | Size | Length |
|------------------|---------------------------------|--|-------------|-------------|
| | | | of pipe. | of main. |
| | | | Inch. | Lin. ft. |
| Center..... | Linden street north..... | Maple and Boundary streets west ... | 6 | 396 |
| Do..... | Spruce street north..... | Larch and Bohrer streets, Le Droit Park. | 6 | 600 |
| Do..... | P street north..... | North Capitol and Boundary streets.. | 6 | 76 |
| Do..... | W street north..... | Tenth and Boundary streets west..... | 6 | 343 |
| Do..... | Third street north..... | D and E streets east..... | 6 | 499 |
| Do..... | First street north..... | O and P streets east..... | 6 | 360 |
| Do..... | H street south..... | Third and Four-and-a-half streets west | 6 | 600 |
| Do..... | I street south..... | Four-and-a-half and Sixth streets west | 6 | 729 |
| Do..... | Fourth street north..... | R and Boundary streets west..... | 6 | 462 |
| Do..... | D street south..... | Seventh and Eighth streets east..... | 6 | 280 |
| Do..... | McLean street south..... | Third and Four-and-a-half streets west | 6 | 646 |
| Do..... | Third street south..... | N street and McLean avenue west..... | 6 | 264 |
| Do..... | L street south..... | First street and New Jersey avenue east. | 6 | 396 |
| North side..... | North Carolina avenue south | Sixth and Seventh streets east..... | 6 | 409 |
| Do..... | do..... | Seventh and Eighth streets east..... | 6 | 341 |
| Do..... | D street south..... | Ninth and Tenth streets east..... | 6 | 406 |
| Center..... | Tenth street south..... | E and G streets east..... | 6 | 528 |
| Do..... | G street south..... | Eighth and Ninth streets east..... | 6 | 283 |
| Do..... | Second street south..... | I street and Virginia avenue east..... | 6 | 192 |
| Do..... | First street south..... | D street and North Carolina avenue east. | 6 | 480 |
| Do..... | S street north..... | Massachusetts avenue and P street west. | 6 | 307 |
| Do..... | Twentieth street north..... | S and Boundary streets west..... | 6 | 360 |
| Do..... | Wylie street north..... | Twelfth and Thirteenth and H and I streets east. | 6 | 480 |
| Do..... | L street north..... | North Capitol and First streets west .. | 6 | 840 |
| Do..... | Seventh street north..... | E street and Maryland avenue east..... | 6 | 420 |
| Do..... | R street north..... | Third and Boundary streets west..... | 6 | 480 |
| Do..... | Third street north..... | Q and R streets west..... | 6 | 168 |
| Do..... | Q street north..... | Fifth and Sixth streets west..... | 6 | 327 |
| Do..... | do..... | Ninth and Columbia streets west..... | 6 | 259 |
| Do..... | Sixth street south..... | South Carolina avenue and E street east. | 6 | 154 |
| Do..... | Ninth street south..... | C and D streets east..... | 6 | 754 |
| Do..... | North Capitol street north..... | O and P streets west..... | 6 | 430 |
| Do..... | New Jersey avenue south .. | L and M streets east..... | 6 | 388 |
| Do..... | Second street north..... | F and G streets east..... | 6 | 612 |
| Do..... | L street south..... | Third and Four-and-a-half streets west | 6 | 660 |
| Do..... | First street south..... | C and D streets west..... | 6 | 321 |
| Do..... | G street south..... | Third and Fourth streets east..... | 6 | 396 |
| Do..... | Q street north..... | First and Third streets west..... | 6 | 822 |
| Do..... | R street north..... | Fourth street and New Jersey avenue west. | 6 | 252 |
| Do..... | Corcoran street north..... | Sixteenth and Seventeenth streets west. | 6 | 502 |
| Do..... | Q street north..... | Seventeenth and Eighteenth streets west. | 6 | 895 |
| Do..... | Seventeenth street north .. | Corcoran and Q streets west..... | 6 | 309 |
| North side | P street north..... | Seventh and Eighth streets west..... | 6 | 192 |
| Do..... | W street north..... | Twelfth and Thirteenth streets west. | 6 | 475 |
| Do..... | C street south..... | Seventh and Eighth streets west..... | 6 | 312 |
| Do..... | E street south..... | Fifth and Sixth streets east..... | 6 | 278 |
| South side | P street north..... | Fifteenth and Sixteenth streets west | 6 | 420 |
| Do..... | New Jersey avenue north..... | P and Franklin streets west..... | 6 | 324 |
| Do..... | L street north..... | Twentieth and Twenty-first streets east. | 6 | 256 |
| Do..... | North Carolina avenue south | Ninth and Tenth streets east..... | 6 | 432 |
| Do..... | Boundary street north..... | Fourth street and New Jersey avenue west. | 6 | 203 |
| Do..... | Rhode Island avenue north. | New Jersey avenue and Boundary street west. | 6 | 202 |
| Do..... | N street north..... | New Hampshire avenue and Twenty- first street west. | 6 | 204 |
| East side..... | Eighth street north..... | C and D streets east..... | 6 | 655 |
| Do..... | Twenty-second street north. | K and L streets west..... | 6 | 336 |
| Do..... | New Jersey avenue north .. | B and C streets west..... | 6 | 792 |
| Do..... | Delaware avenue north..... | D and E streets east..... | 6 | 556 |
| Do..... | Connecticut avenue north. | Rhode Island avenue and Eighteenth street west. | 6 | 140 |
| Do..... | Eighth street south..... | B and C streets east..... | 6 | 540 |
| West side..... | Twenty-first street north..... | Massachusetts avenue and P street west. | 6 | 321 |
| Do..... | Twenty-third street north..... | L and M streets west..... | 6 | 586 |
| Do..... | Fifth street north..... | East Capitol and A streets east..... | 6 | 294 |
| Do..... | New Hampshire avenue north. | L and M streets west..... | 6 | 450 |
| Do..... | Fifth street north..... | A and B streets east..... | 6 | 315 |

| Location. | Street or avenue. | Streets between. | Size of pipe. | Length of main. |
|-------------------|--|--|---------------|-----------------|
| | | | <i>Inch.</i> | <i>Lin. ft.</i> |
| West side..... | North Capitol street..... | K and L streets west..... | 6 | 384 |
| South side..... | K street north..... | New Jersey avenue and First street west..... | 6 | 416 |
| Center..... | Cleveland street north..... | W and Boundary streets west..... | 6 | 486 |
| East side..... | Ninth street south..... | B and C streets west..... | 6 | 400 |
| Do..... | Fifth street north..... | A and East Capitol streets east..... | 6 | 320 |
| Intersection..... | Sixth street south..... | East Capitol street..... | 6 | 70 |
| Do..... | Third street north..... | Maryland avenue east..... | 6 | 226 |
| Do..... | Eighteenth street north..... | Q street west..... | 6 | 110 |
| Do..... | Fifth street north..... | A street east..... | 6 | 375 |
| Do..... | do..... | East Capitol street east..... | 6 | 48 |
| North side..... | do..... | B street east..... | 6 | 84 |
| South side..... | do..... | do..... | 6 | 78 |
| Do..... | do..... | C street east..... | 6 | 60 |
| Do..... | Twenty-third street north..... | L street west..... | 6 | 24 |
| North side..... | do..... | do..... | 6 | 67 |
| In alley..... | Thirteenth and Fourteenth streets north..... | V and W streets west..... | 3 | 308 |
| Do..... | Ninth and Tenth streets north..... | N and O streets west..... | 3 | 252 |
| Do..... | Twenty-fifth and Twenty-sixth streets north..... | Q and Road streets west..... | 3 | 252 |
| Do..... | North Capitol and First streets north..... | K and L streets west..... | 3 | 315 |
| Do..... | Twenty-fourth and Twenty-fifth streets north..... | I and K streets west..... | 3 | 456 |
| Do..... | North Capitol and First streets north..... | L and Pierce streets west..... | 3 | 264 |
| Do..... | Thirteenth and Fourteenth streets north..... | Massachusetts avenue and L street west..... | 3 | 252 |
| Do..... | First and Second streets north..... | F and G streets west..... | 3 | 132 |
| Do..... | Thirty-first and Thirty-second streets north..... | M and N streets west..... | 3 | 254 |
| Do..... | Thirteenth and Fourteenth streets north..... | H and Boundary streets east..... | 3 | 272 |
| Do..... | Twenty-sixth and Twenty-seventh streets north..... | K and L streets west..... | 3 | 114 |
| Do..... | Twentieth and Twenty-first streets north..... | do..... | 3 | 167 |
| Do..... | Fourth and Fifth streets north..... | do..... | 3 | 315 |
| Do..... | Ninth street and Vermont avenue north..... | T and U streets west..... | 3 | 272 |
| Do..... | First and Second streets south..... | H and Canal streets east..... | 3 | 456 |
| Do..... | do..... | East Capitol and A streets east..... | 3 | 264 |
| Do..... | Third and Fourth streets south..... | A and B streets east..... | 3 | 120 |
| Do..... | Sixth and Seventh streets south..... | Pennsylvania avenue and E street east..... | 3 | 168 |
| Do..... | First and Second streets south..... | C and D streets east..... | 3 | 234 |
| Do..... | Second street and Delaware avenue south..... | M and N streets west..... | 3 | 548 |
| Do..... | First street and Delaware avenue south..... | D and E streets west..... | 3 | 648 |
| Do..... | Second and Third streets north..... | F and G streets east..... | 3 | 360 |
| Decatur..... | North Capitol and First streets north..... | O and P streets northeast..... | 3 | 200 |
| Total..... | | | | 44,544 |

STOP-VALVES.

The following is a list of the stop-valves inserted during the year, viz:

| Location. | No. | Size. | Ways. |
|---|-----|-------|-------|
| Center of South Capitol street and Virginia avenue..... | 1 | 10 | 2 |
| North side of M street and center of South Capitol street..... | 1 | 10 | 2 |
| East side of Thirty-third street and center of Q street northwest..... | 1 | 10 | 2 |
| Center of O street, between Ninth and Tenth streets northwest..... | 1 | 4 | 2 |
| Center of Fifth and A streets northeast..... | 1 | 6 | 4 |
| Center of Third and H streets northwest..... | 1 | 6 | 4 |
| Center of North Capitol and P streets northwest..... | 1 | 6 | 4 |
| Center of North Capitol and O streets northwest..... | 1 | 6 | 4 |
| Center of New Jersey avenue and L street northwest..... | 1 | 6 | 4 |
| Center of New Jersey avenue and M street northwest..... | 1 | 6 | 4 |
| Center of Second and P streets northeast..... | 1 | 6 | 4 |
| Center of Third and L streets southwest..... | 1 | 6 | 4 |
| Center of First and O streets northwest..... | 1 | 6 | 4 |
| Center of Boundary and W streets northwest..... | 1 | 6 | 4 |
| Center of Delaware avenue and D street northeast..... | 1 | 6 | 4 |
| Center of McLean avenue and Third streets southwest..... | 1 | 6 | 4 |
| Center of Twentieth and H streets northwest..... | 1 | 6 | 2 |
| Center of Twenty-first street and Massachusetts avenue northwest..... | 1 | 6 | 4 |
| Northwest corner of Twenty-first and P streets northwest..... | 1 | 6 | 2 |
| Northwest corner of Eighth street and North Carolina avenue southeast..... | 1 | 6 | 2 |
| Northwest corner of New Jersey avenue and P street northwest..... | 1 | 6 | 2 |
| Southeast corner of New Jersey avenue and K street northwest..... | 1 | 6 | 4 |
| Southwest corner of First street and Maryland avenue southwest..... | 1 | 6 | 4 |
| Southeast corner of New Jersey avenue and C street northwest..... | 1 | 6 | 4 |
| East side of Connecticut avenue and center of S street northwest..... | 1 | 6 | 2 |
| West side of Thirteenth street, between H and I streets northeast..... | 1 | 6 | 2 |
| West side of Sixteenth street and center of Corcoran street northwest..... | 1 | 6 | 2 |
| South side of L street and center of Twenty-first street northwest..... | 1 | 6 | 4 |
| Center of Maple and Spruce streets, Le Droit Park..... | 1 | 6 | 4 |
| Center of A street, between First and Second streets southeast..... | 1 | 4 | 2 |
| Center of U street, between Ninth street and Vermont avenue northwest..... | 1 | 2 | 2 |
| In alley, Thirteenth and Fourteenth streets, Massachusetts avenue and L street northwest..... | 1 | 4 | 2 |
| Center of Twenty-third and M streets northwest..... | 1 | 6 | 4 |
| Center of Seventeenth and Concoran streets northwest..... | 1 | 6 | 4 |
| Center of South Capitol street and Virginia avenue..... | 1 | 6 | 4 |
| Center of South Capitol and G streets..... | 2 | 6 | 2 |
| Center of South Capitol and H streets..... | 2 | 6 | 2 |
| Center of South Capitol and I streets..... | 2 | 6 | 2 |
| Center of South Capitol and K streets..... | 2 | 6 | 2 |
| Center of South Capitol and L streets..... | 2 | 6 | 2 |
| Center of South Capitol and M streets..... | 2 | 6 | 2 |
| Center of M and Union streets southwest..... | 1 | 6 | 4 |
| Center of Third and K streets northeast..... | 1 | 6 | 4 |
| Center of Fourth and K streets northeast..... | 1 | 6 | 4 |
| Center of Tenth and V streets northwest..... | 1 | 6 | 4 |
| Center of First and N streets northwest..... | 1 | 6 | 4 |
| Center of Second and N streets northwest..... | 1 | 6 | 4 |
| Center of Third and N streets northwest..... | 1 | 6 | 4 |
| Center of Thirteenth and Wallach streets northwest..... | 1 | 6 | 2 |
| Center of Fourteenth and Wallach streets northwest..... | 1 | 6 | 2 |
| Center of Twenty-first and R streets northwest..... | 1 | 6 | 4 |
| Center of Third and E streets northeast..... | 1 | 6 | 4 |
| Center of Fourth and R streets northwest..... | 1 | 6 | 4 |
| Center of Twenty-first and N streets northwest..... | 1 | 6 | 4 |
| Center of Twentieth and S streets northwest..... | 1 | 6 | 4 |
| Center of Sixth street and South Carolina avenue southeast..... | 1 | 6 | 4 |
| Center of Ninth street and South Carolina avenue southeast..... | 1 | 6 | 4 |
| Center of Ninth and C streets southeast..... | 1 | 6 | 4 |
| In alley, between First and Second streets, Virginia avenue and H street southeast..... | 1 | 3 | 2 |
| Total..... | 65 | | |

Removed the 6-inch four-way stop-cock from the west side of Eighth and center of C streets northeast, to the center of Eighth and C streets northeast.

Removed the 6-inch four-way stop-cock from the south side of D and center of Tenth streets to the center of Tenth and D streets southeast.

Removed the 6-inch four-way stop-cock from the southeast corner of Seventeenth and Q streets to the center of Seventeenth and Q streets northwest.

Stop-valves were inserted in place of old ones at Seventh and H streets northwest and Thirty-fifth and S streets northwest.

Thirty-eight stop-valves were changed to new grade.

One hundred and fourteen repairs were made to stop-cocks.

Seventy-six bends were inserted.

One hundred and eleven T-branches were inserted.

Six four-way branches were inserted.

Lowering water mains.

| Location. | Street or avenue. | Streets between. | Size of pipe. | Length of pipe. |
|-------------|--------------------------|-------------------------------------|----------------|------------------|
| | | | <i>Inches.</i> | <i>Lin. feet</i> |
| Center..... | Pierce street north .. | First and North Capitol west | 6 | 750 |
| Do..... | B street north | Eleventh and Thirteenth east | 6 | 300 |
| | Tenth street south | Pennsylvania avenue and E east..... | 6 | 100 |
| | G street south | Sixth and Seventh east | 6 | 450 |
| Total | | | | 1,600 |

Two hundred and six repairs have been made to water mains during the year.

FIRE-PLUGS.

There have been erected during the year forty-seven fire-plugs in new localities, and two in place of old ones, viz :

NEW LOCALITIES.

North side of Massachusetts avenue between Ninth and Tenth streets northwest.
 South side of K street between Ninth and Tenth streets northwest.
 South side of N street between Sixth and Seventh streets northwest.
 East side of Seventh street between D and E streets northwest.
 West side of Ninth street between D and E streets northwest.
 West side of H street between Ninth and Tenth streets northwest.
 West side of Sixteenth street between L and M streets northwest.
 West side of Fourteenth street between E and F streets northwest.
 West side of Tenth street between E and F streets northwest.
 Northwest corner of Eighth and H streets northwest.
 Northwest corner of Ninth and S streets northwest.
 Northwest corner of Thirteenth and R streets northwest.
 Northwest corner of Vermont avenue and N street northwest.
 Northwest corner of Eighteenth and Jefferson streets northwest.
 Northwest corner of Ninth and F streets northwest.
 Northwest corner of Seventh and K streets northwest.
 Northwest corner of Four-and-a-half and I streets southwest.
 Northwest corner of Twelfth and B streets northeast.
 Northwest corner of North Capitol and L streets northwest.
 Northwest corner of Tenth and V streets northwest.
 Northwest corner of Thirty-third and Prospect streets northwest.
 Northwest corner of Twentieth and H streets northwest.
 Northwest corner of Connecticut avenue and L streets northwest.
 Northwest corner of First and Q streets northwest.
 Northwest corner of Fourth and K streets northeast.
 Northwest corner of P and Boundary streets northeast.
 Southeast corner of Tenth and D streets southwest.
 Southeast corner of South Capitol and I streets southeast.
 Northeast corner of Eleventh and M streets northwest.

Northeast corner of Eleventh street and Rhode Island avenue northwest.
 Northeast corner of Eleventh and R streets northwest.
 Northeast corner of Tenth and T streets northwest.
 Northeast corner of Third and G streets southwest.
 Northeast corner of Seventh and C streets northwest.
 Northeast corner of Eighteenth and Q streets northwest.
 Northeast corner of South Capitol and L streets southeast.
 Northeast corner of Third and N streets northwest.
 Northeast corner of New Jersey avenue and B street northwest.
 Northeast corner of First and L streets southeast.
 Southeast corner of Fifteenth and R streets northwest.
 Southwest corner of New Jersey avenue and D street northwest.
 Southwest corner of Four-and-a-half and O streets southwest.
 Southwest corner of Twelfth and W streets northwest.
 Southwest corner of First and N streets northwest.
 Southwest corner of Third and L streets southwest.
 Southwest corner of Ninth and C streets southeast.
 Southwest corner of Twelfth and Boundary streets northwest.

NEW ONES ERECTED IN PLACE OF OLD ONES.

Corner of Fifteenth and E streets northwest.
 Corner of Eighth and G streets southeast.

The Meigs fire-plug located at the intersection of Thirty-fifth street and Prospect avenue northwest has been converted into a stop-valve.

Six fire-plugs have been removed to the line of the new curb, viz :

Corner of Seventh and E streets southeast.
 Corner of Vermont avenue and R street northwest.
 Corner of Seventh and G streets southeast.
 Corner of Seventh and Boundary streets northwest.
 Corner of First and L streets northwest.
 Corner of Vermont avenue and Boundary street northwest.

Two fire-plugs have been changed to new grade, viz .

Corner of First and I streets northeast.
 Corner of Ninth and G streets southeast.

Eight hundred and thirty-two repairs have been made to fire-plugs.

HYDRANTS.

Five new hydrants have been erected, six have been abandoned, one has been moved to new curb line; seventy-six new hydrants have been erected in place of old ones.

Seven hundred and twenty-three repairs have been made to hydrants.

NEW HYDRANTS ERECTED.

West side of Tennessee avenue, between B and C streets southeast.
 North side of K street, between Seventeenth and Eighteenth streets northwest.
 Northeast corner of Fifth and E streets southeast.
 Southeast corner of N and Madison streets northwest.
 Southeast corner of Sixteenth and A streets southeast.

HYDRANTS ABANDONED.

H street, between Twenty-first and Twenty-second streets northwest.
 Massachusetts avenue, between Ninth and Tenth streets northwest.
 I street, between Twenty-first and Twenty-second streets northwest.
 Corner Twentieth and L streets northwest.
 Corner Vermont avenue and T street northwest.
 Corner Potomac and Grace streets northwest.

TAPS.

One thousand seven hundred and forty-seven taps were made during the year.

FOUNTAINS.

Nine new fountains, presented by the Society for the Prevention of Cruelty to Animals, were erected by the District.

Seventy-six repairs have been made to fountains.

NEW FOUNTAINS.

Corner Twentieth and M streets northwest.
 Corner North Capitol and P streets northwest.
 Corner Fourth and O streets northwest.
 Corner Eleventh and T streets northwest.
 Corner Thirteenth street and New York avenue northwest.
 Corner Thirty-second and M streets northwest.
 Corner Third and L streets northwest.
 Corner Fifth and K streets northwest.
 Corner Third and E streets northwest.

PUMPS.

One well has been sunk, eleven pumps erected in place of old ones, six pumps moved to the line of the new curb, two pumps changed to new grade, five wells have been cleaned out, three pumps have been removed and the wells filled up. Removed pump from the corner of South Capitol and L streets to the corner of South Capitol and N streets southwest.

PUMPS ERECTED IN PLACE OF OLD ONES.

Corner Twelfth and N streets northwest.
 Corner Sixth and E streets southwest.
 Corner Vermont avenue and L street northwest.
 Corner Thirty-second and Dumbarton streets northwest.
 Corner Third street and Pennsylvania avenue southeast.
 Corner Four-and-a-half and C streets southwest.
 Corner First and M streets southeast.
 Corner Second and A streets northeast.
 One-half, between N and O streets southwest.
 Caroline, between Fifteenth and Sixteenth streets northwest.
 Louisiana avenue, between Ninth and Tenth streets northwest.

WELL SUNK AND PUMP ERECTED, NEW LOCATION.

Corner First and K streets southeast.

SERVICES.

One hundred and sixty-two were run to new curb line and eighty lowered.

WATER INSPECTORS.

| | |
|--|--------|
| Examinations made | 73,800 |
| Leaks found, first examination | 6,401 |
| Leaks repaired, second examination | 5,182 |
| Wastes were found | 279 |
| Warrants were obtained | 185 |

246 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

| | |
|--------------------------------------|--------|
| Cases were fined \$5 each..... | 137 |
| Cases forfeited \$5 each | 22 |
| Cases personal bonds were taken..... | 32 |
| Cases were dismissed | 40 |
| Persons refused admission | 2 |
| Water-rent bills delivered | 20,771 |

Very respectfully, your obedient servant,

H. F. HAYDEN,
Superintendent Water Department.

Col. WILLIAM LUDLOW,
Corps of Engineers, U. S. Army, Engineer Commissioner, D. C.

APPENDIX NO. 23.

Character and extent of street pavements, July 1, 1886.
WASHINGTON.

[Streets marked thus * have been paved since July 1, 1878.]

| Street. | From— | To— | Carriageway. | | | | | | Remarks. | |
|---------------------|---------------------|-----------------|--------------|----------------------|-----------------|-----------------|-----------------------|-----------------|-----------------|---|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | | Gravel. | Unimproved. |
| | | | <i>Feet.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | |
| North Capitol. | B street north | C street north | 50 | 2,790 | | | | | | Gravel from E to Boundary. |
| Do. | C street north | Boundary | 50 | | | | | | 30,358 | 4,542 |
| South Capitol. | B street north | N street south | 50 | | | | | | 26,284 | |
| Do. | N street south | N street south | 50 | | | | | | | |
| Do. | N street south | River | 50 | | | | 3,243 | | 13,259 | |
| First street east. | B street north | B street south | 50 | 8,657 | | | 1,511 | | | From M st. south to N st. 1,511 yards cobble bet. R. R. tracks. |
| Do. | do | C street north | 35 | 1,986 | | | | | | O. c. walk, curb, and gutter. G to K street. |
| Do. | C street north | K street north | 35 | | | | | | 9,245 | |
| Do. | K street north | Boundary | 35 | | | | | | | |
| Do. | B street south | C street south | 38 | | | | | | 5,639 | From Bet. south to C st. O. c. walk, curb, and gutter. M to N. |
| Do. | C street south | Canal | 35 | *2,151 | | | | | 3,500 | |
| Do. | Canal | River | 35 | | | | | | | Cobble bet. K. R. tracks |
| First street west. | Pennsylvania avenue | Indiana avenue | 56 } | | *8,332 | | 4,055 | | | Concrete from H to Defrees. |
| Do. | Indiana avenue | F street north | 40 } | | *1,427 | | | | | |
| Do. | G street north | H street north | 32 | *700 | *535 | | | | | |
| Do. | H street north | I street north | 32 | | | | | | 1,124 | |
| Do. | I street north | K street north | 32 | | | | | | | |
| Do. | K street north | Boundary street | 32 | | | | | | | |
| Do. | Pennsylvania avenue | M street south | 53 | *4,861 | | | 1,133 | | | |
| Do. | Maryland avenue | M street south | 35 | | 17,920 | | | | | |
| Do. | N street south | River | 34 | | | | 2,314 | | | |
| Do. | N street south | Maryland avenue | 35 | | | | | | 13,160 | |
| Second street east. | Pennsylvania avenue | H street north | 32 | *4,751 | | | | | 9,707 | |
| Do. | Maryland avenue | Boundary street | 32 | | | | | | | |
| Do. | H street north | D street south | 32 } | *4,906 | | | | | | O. c. walk, curb, and gutter. G to L. |
| Do. | Pennsylvania avenue | | 35 } | | | | | | | |

Character and extent of street pavements, July 1, 1886.—Continued.

WASHINGTON.—Continued.

| Street. | From— | To— | Width. | Carriageway. | | | | | | Remarks. |
|--------------------|----------------------|----------------------|-----------------|----------------------|-----------------|-----------------|-----------------------|-----------------|-----------------|--|
| | | | | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | Gravel. |  | Unimproved. |
| Second Street east | D street south. | Canal. | <i>Feet.</i> 35 | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | 32 feet wide bet. H and I O. c. walk, curb, and gutter, from B to D. |
| Do. | Canal. | River. | 32 | | | | | | 5,464 | |
| Second street west | Pennsylvania avenue. | New Jersey avenue. | 40 | *10,423 | *3,693 | | | | 4,620 | |
| Do. | B street south. | Maryland avenue. | 32 | | | | | *1,130 | 23,840 | |
| Do. | do. | D street south. | 32 | | | | | | 3,200 | |
| Third street east | D street south. | River. | 32 | | | | | 1,060 | | O. c. walk, curb, and gutter. Resurfaced from D to K street in 1883. O. c. walk, curb, and gutter, 1,900 feet. |
| Do. | East Capitol. | E street north. | 32 | *3,122 | | | | 3,560 | 12,715 | |
| Do. | E street north. | Boundary. | 32 | | | | | | 1,152 | |
| Do. | East Capitol. | Pennsylvania avenue. | 32 | *3,521 | | | | | 895 | |
| Do. | Pennsylvania avenue. | C street south. | 32 | | | | | | | O. c. walk, curb, and gutter. Resurfaced from D to K street in 1883. O. c. walk, curb, and gutter, 1,900 feet. |
| Do. | C street south. | D street south. | 32 | | *2,573 | | | | 800 | |
| Do. | D street south. | Virginia avenue. | 32 | | 5,060 | | | | | |
| Do. | Virginia avenue. | L street south. | 32 | | | | 4,461 | | 2,020 | |
| Do. | L street south. | Georgia avenue. | 32 | | | | | | | From G to M, east side im- proved. |
| Do. | D street south. | D street north. | 32 | | *4,230 | | | | | |
| Do. | Pennsylvania avenue. | New Jersey avenue. | 40 | 19,480 | | | | | 8,445 | |
| Do. | D street north. | Boundary. | 40 | | | | | | 18,141 | |
| Do. | Pennsylvania avenue. | B street south. | 40 | | *6,065 | | | | | From G to M, east side im- proved. |
| Do. | B street south. | N street south. | 40 | *2,303 | | | | | 2,474 | |
| Do. | E street north. | Boundary. | 35 | *4,536 | | | | | 14,700 | |
| Do. | East Capitol. | C street south. | 35 | *4,152 | | | | | | |
| Do. | C street south. | N street south. | 35 | | | | | | | |
| Fourth street west | D street north. | New York avenue. | 32 | 14,291 | | | 16,760 | | | |
| Do. | New York avenue. | O street north. | 32 | | | | 3,968 | | | |
| Do. | O street north. | Boundary. | 32 | | | | 2,051 | | 2,280 | |
| Do. | D street north. | Missouri avenue. | 70 | | | | 9,302 | | 8,320 | |
| Do. | Missouri avenue. | O street south. | 55 | *12,850 | | | 10,204 | 17,700 | | Cobble between R. R. tracks. |
| Do. | | | | | | | | | | |

| | | | | | | | |
|---------------------------------|---------------------|---------------------|----|---------|-------|--------------------------------|-----------------------------------|
| Do. | K street north | O street north | 35 | 4,326 | 3,666 | 2,115 | Do. |
| Do. | R street north | R street north | 35 | 4,375 | 4,375 | yards cobble bet R. R. trucks. | |
| Do. | E street north | Boundary | 35 | | 4,355 | Cobble bet. R. R. tracks. | |
| Do. | B street south | Water | 40 | 10,511 | | | |
| Twelfth street east | Lincoln square | Boundary | 32 | | 6,908 | | |
| Do. | do | River | 32 | | | 15,976 | |
| Twelfth street west | Pennsylvania avenue | Ohio avenue | 40 | 3,500 | | 17,953 | Trap rock. |
| Do. | do | E street north | 38 | *1,292 | | | |
| Do. | E street north | F street north | 38 | *1,627 | | | |
| Do. | F street north | N street north | 32 | 13,039 | | | |
| Do. | N street north | Rhode Island avenue | 32 | *3,379 | | | |
| Do. | Rhode Island avenue | Boundary | 32 | | | 11,947 | |
| Do. | B street north | Water street | 40 | 17,300 | | 14,898 | |
| Do. | do | Boundary | 32 | | | 14,820 | |
| Thirteenth street east | East Capitol | River | 32 | | | 14,820 | |
| Do. | Pennsylvania avenue | E street north | 40 | *685 | | | |
| Thirteenth street west | do | F street north | 40 | *1,741 | | | |
| Do. | E street north | K street north | 40 | 7,772 | | | |
| Do. | F street north | Pennsylvania avenue | 40 | 4,807 | | | |
| Do. | B street north | Circle | 32 | 8,080 | | | 1,760 sq. yards paved since 1878. |
| Do. | K street north | Boundary | 32 | | | | 5,942 sq. yards paved since 1878. |
| Do. | Circle | Maryland avenue | 32 | *6,398 | | 6,747 | Asphalt to T street. |
| Do. | B street south | Water street | 40 | 5,706 | | | |
| Do. | Maryland avenue | B street north | 40 | | 5,005 | | |
| Thirteen-and-a-half street west | Pennsylvania avenue | do | 35 | | | 1,636 | |
| Do. | B street south | Maryland avenue | 32 | | 4,291 | | |
| Do. | East Capitol | Boundary | 32 | | | 11,698 | |
| Do. | do | River | 32 | | | 14,791 | |
| Fourteenth street east | do | B street north | 40 | 7,841 | | | |
| Fourteenth street west | do | F street south | 70 | *1,734 | | | |
| Do. | Thomas Circle | Boundary | 70 | 16,655 | 8,984 | | |
| Do. | do | do | 70 | *32,782 | 4,004 | | |
| Do. | Thomas Circle | Water street | 40 | | 8,024 | | |
| Do. | B street south | Boundary | 32 | | 6,764 | | |
| Do. | East Capitol | do | 32 | | | 12,106 | |
| Fifteenth street east | do | River | 32 | | | 13,793 | |
| Do. | Pennsylvania avenue | B street north | 43 | *7,012 | | | |
| Fifteenth street west | do | New York avenue | 50 | | 1,822 | | |
| Do. | do | H street north | 50 | | | | |
| Do. | K street north | K street north | 32 | 7,005 | | | |
| Do. | do | Rhode Island avenue | 32 | | | | |
| Do. | K street north | S street north | 32 | *6,920 | | | |
| Do. | Rhode Island avenue | Boundary, S to V | 32 | 7,516 | | | |
| Do. | S street north | Boundary, S to V | 32 | *4,059 | | | |
| V street to Boundary west | Pennsylvania avenue | H street north | 40 | 1,997 | | 2,806 | From U street to Boundary. |
| Fifteen-and-a-half street west | do | C street north | 32 | | | | |
| Sixteenth street east | do | Kentucky avenue | 32 | | | 5,973 | |
| Do. | do | Boundary street | 50 | *36,659 | | 8,782 | |
| Sixteenth street west | do | H street north | 40 | 2,136 | | | |
| Sixteen-and-a-half street west | Pennsylvania avenue | do | 50 | | | | |

Character and extent of street pavements, July 1, 1886—Continued.

- WASHINGTON—Continued.

| Street. | From— | To— | Carriageway. | | | | | | Remarks. | |
|---------------------|------------------------------|-----------------------------------|--------------|----------------------|-----------------|-----------------|-----------------------|-----------------|-----------------|-----------------|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | | Gravel. | Unimproved. |
| | | | <i>Feet.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> | <i>Sq. yds.</i> |
| B street south..... | Twelfth street east..... | Eastern Branch..... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| B street north..... | Sixth street west..... | Seventh street west..... | 56 | ..... | ..... | ..... | 3,132 | ..... | ..... | 18,133 |
| Do..... | Twelfth street west..... | Twelfth street west..... | 101 | ..... | ..... | ..... | 18,086 | ..... | ..... | ..... |
| Do..... | Twelfth street west..... | Seventeenth street west..... | 60 | ..... | 23,882 | ..... | ..... | ..... | ..... | ..... |
| Do..... | Seventeenth street west..... | Seventeenth street west..... | 60 | ..... | ..... | ..... | ..... | ..... | ..... | 18,680 |
| Do..... | First street west..... | Twenty-third st. west..... | 40 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | Delaware avenue..... | 35 | ..... | 5,750 | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | Third street west..... | 35 | ..... | *3,256 | ..... | ..... | ..... | ..... | ..... |
| B street south..... | do..... | New Jersey avenue..... | 35 | ..... | 2,100 | ..... | 1,983 | ..... | ..... | ..... |
| Do..... | do..... | Maryland avenue..... | 35 | ..... | *5,416 | ..... | ..... | ..... | ..... | ..... |
| Do..... | Sixth street west..... | Fourteenth street west..... | 32 | ..... | *12,840 | ..... | ..... | ..... | ..... | ..... |
| C street north..... | Delaware avenue..... | Third street east..... | 32 | ..... | *6,371 | ..... | ..... | ..... | ..... | ..... |
| Do..... | Third street east..... | Fourth street east..... | 32 | ..... | *1,505 | ..... | ..... | ..... | ..... | 20,204 |
| Do..... | Sixth street east..... | Eastern Branch..... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | 890 |
| O street south..... | South Capitol..... | New Jersey avenue..... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | New Jersey avenue..... | Third street east..... | 32 | ..... | 6,922 | ..... | ..... | ..... | ..... | ..... |
| Do..... | Fourth street east..... | Fourth street east..... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | 3,468 |
| Do..... | Fourth street east..... | Sixth street east..... | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 1,985 |
| Do..... | Sixth street east..... | Sixth street east..... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | Seventh street east..... | Nineteenth street east..... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | 19,200 |
| O street north..... | Delaware avenue..... | New Jersey avenue..... | 46 | ..... | *4,909 | ..... | 2,510 | ..... | ..... | ..... |
| Do..... | New Jersey avenue..... | First street west..... | 63 | ..... | *1,291 | ..... | ..... | ..... | ..... | ..... |
| Do..... | Four-and-a-half street west. | Second street west..... | 30 | ..... | *2,054 | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | Louisiana avenue (inter-section). | 46 | ..... | *4,604 | ..... | ..... | ..... | ..... | ..... |
| Do..... | Seventh street west..... | Eighth street west..... | 46 | ..... | *1,183 | ..... | ..... | ..... | ..... | ..... |
| Do..... | Ninth street west..... | Tenth street west..... | 40 | ..... | 1,656 | ..... | ..... | ..... | ..... | ..... |
| Do..... | Tenth street west..... | Fifteenth street west..... | 40 | ..... | ..... | 7,820 | ..... | ..... | ..... | 10,453 |
| Do..... | Seventeenth street west..... | Twenty-third st. west..... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | 12,640 |
| O street south..... | South Capitol..... | Seventh street west..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | Seventh street west..... | Ninth street west..... | 40 | ..... | 4,450 | ..... | ..... | ..... | ..... | ..... |
| Do..... | Ninth street west..... | Fourteenth street west..... | 35 | ..... | 3,253 | ..... | ..... | ..... | ..... | 3,470 |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Do..... | do..... | do..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| | | | | | | | | | | |

Cobble bet. R. R. tracks.

O. c. walk curb and gutter, from 7th to 11th st.

Cobble bet. R. R. tracks.

| | | | | | | | | |
|------------------------|----------------------------------|------------------------------|-------|---------|---------|----------|---------|---|
| D street north. | North Capitol | Fifteenth street east. | 32 | | | 1, 180 | 20, 509 | Blue rock about 32 feet wide bet. New Jersey ave. and North Capitol street. |
| Do. | do. | New Jersey avenue. | 35 | 3, 818 | | | 1, 556 | Cobble between R. R. tracks. |
| Do. | New Jersey avenue | Tenth street west. | 36 | | *6, 278 | 2, 266 | | |
| Do. | Sixth street west. | Third street west. | 36 | | | 3, 614 | | |
| Do. | Twelfth street west. | Fourteenth street west. | 40 | | | 1, 965 | | |
| Do. | Fourteenth street west. | Twenty-third street west. | 40 | | | | 8, 273 | |
| Do. | Seventeenth street west. | New Jersey avenue. | 35 | | | | 1, 750 | |
| Do. | North Capitol | Third street east. | 35 | | | | 5, 260 | |
| Do. | New Jersey avenue | do. | 35 | *1, 454 | | | | |
| Do. | Second street east. | Sixth street east. | 35 | | | | 3, 267 | |
| Do. | Third street east. | Seventh street east. | 35 | | | 1, 890 | | |
| Do. | Sixth street east. | Eighth street east. | 35 | | | | 931 | |
| Do. | Seventh street east. | Nineteenth street east. | 30 | | | | 17, 810 | |
| Do. | Eighth street east. | Four-and-a-half street west. | 32 | | | | 7, 800 | |
| Do. | South Capitol. | Fourth street west. | 35 | | | 10, 815 | | |
| Do. | Four-and-a-half street west. | Delaware avenue. | 35 | | | | | O. c. walk, curb, and gutter. |
| E street north. | North Capitol | Maryland avenue. | 35 | | | | 2, 140 | |
| Do. | do. | Fifteenth street east. | 35 | | | | 12, 810 | |
| Do. | Maryland avenue. | New Jersey avenue. | 35 | | | 1, 923 | 9, 042 | Blue rock 30 feet wide, bet. North Capitol and New Jersey avenue. |
| Do. | North Capitol | Fourth street west. | 35 | | | | 220 | |
| Do. | New Jersey avenue. | Eleventh street west. | 35 | *4, 032 | | | | Asphalt block. |
| Do. | Fifth street west. | Thirteenth street west. | 40 | *9, 223 | | | | |
| Do. | Eleventh street west. | Pennsylvania avenue. | 40 | | *2, 487 | | | |
| Do. | Thirteenth street west. | Virginia avenue. | 41-48 | *1, 093 | | 2, 720 | | |
| Do. | Thirteen-and-a-half street west. | Twenty-third street west. | 40 | | | | | |
| Do. | Seventeenth street west. | Twenty-seventh street west. | 32 | | | 10, 468 | | |
| Do. | Virginia avenue. | Nineteenth street east. | 32 | | | | 1, 800 | |
| Do. | Twenty-third street west. | New Jersey avenue. | 35 | | | | 5, 871 | |
| Do. | South Capitol | do. | 35 | | | | | |
| Do. | First street east. | Nineteenth street east. | 35 | | | *12, 486 | 2, 334 | Curb set on north side. |
| Do. | do. | Fourth street west. | 35 | | | | 20, 787 | O. c. walk, curb, and gutter, from 11th to 19th street. |
| Do. | South Capitol | Fifteenth street east. | 35 | *4, 285 | | | | Asphalt from 4th st. to 7th st. |
| Do. | North Capitol | Fourth street west. | 35 | | | | 17, 990 | |
| Do. | Maryland avenue. | Fifteenth street east. | 35 | | | | 20, 000 | |
| Do. | do. | New Jersey avenue. | 35 | | | | 2, 625 | |
| Do. | New Jersey avenue. | Fourth street west. | 35 | *4, 382 | | | | |
| Do. | Fifth street west. | Seventh street west. | 51 | *5, 090 | | 1, 419 | | Cobble bet. R. R. tracks. |
| Do. | Seventh street west. | Ninth street west. | 57 | *1, 913 | *527 | 771 | | Do. |
| Do. | Ninth street west. | Fifteenth street west. | 60 | 11, 684 | | 4, 100 | | Do. |
| Do. | Seventeenth street west. | Eighteenth street west. | 40 | *2, 856 | | | | |
| Do. | Eighteenth street west. | Twenty-second street west. | 40 | 8, 790 | | | | |

Character and extent of street pavements, July 1, 1886—Continued.

WASHINGTON—Continued.

| Street. | From— | To— | Carriageway. | | | | | | | Remarks. | |
|----------------|------------------------------|------------------------------|--------------|----------------------|----------|-------|-----------------------|----------|----------------|----------|--|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | Gravel. | | Unimproved. |
| F street north | Twenty-second street west. | Twenty-seventh street west. | Feet. 32 | | | | | | St. yds. 6,917 | | |
| F street south | South Capitol | Four-and-a-half street west. | 35 | | *6,777 | | | | St. yds. 998 | | |
| Do | Four-and-a-half street west. | Seventh street west | 35 | *4,206 | | | | | | | |
| Do | Seventh street west | Water street | 35 | | | | 6,838 | | | | |
| G street north | North Capitol | Fifteenth street east. | 35 | | | | | | 9,825 | 15,175 | |
| Do | do | First street west | 35 | | | | | | 3,210 | | |
| Do | First street west | Seventh street west | 35 | 8,683 | | | 1,890 | | | | |
| Do | Seventh street west | Fifteenth street west | 40 | 15,097 | | | | | | | |
| Do | Seventeenth street west | Twenty-second street west. | 36 | 10,275 | | | | | | | |
| Do | Twenty-second street west. | Twenty-seventh street west. | 36 | | 9,511 | | | | *10,887 | 10,019 | Gravel from 6th to 13th st. |
| Do | Third street east | Seventeenth street east | 35 | | | | | | | | Cobble bet. R. R. tracks. |
| Do | South Capitol | Four-and-a-half street west. | 35 | | | | | | | | |
| Do | Four-and-a-half street | Eleventh street west | 35 | | | | | | | | |
| H street north | North Capitol | First street east | 56 | *10,982 | | | | | | | O. c. walk, curb, and gutter, from 11th to 14th street. |
| Do | First street east | Fifteenth street east | 56 | *4,004 | | | | | | 8,467 | O. c. walk, curb, and gutter, from 2d to 4th street. |
| Do | | | | *15,490 | | | | | | | |
| Do | North Capitol | First street west | 50 | | | | | | | | Cobble bet. R. R. tracks. |
| Do | First street west | Fourth street west | 56 | *8,337 | | | | | | | 9,204 square yards bet. R. R. tracks. |
| Do | Third street west | Seventh street west | 56 | *784 | | | | | | | Cobble bet. R. R. tracks. |
| Do | Seventh street west | Thirteenth street west | 35 | 9,067 | | | | | | | |
| Do | Thirteenth street west | Fourteenth street west | 40 | 2,144 | | | | | | | |
| Do | Fourteenth street west | Fifteenth street west | 56 | *1,948 | | | 655 | | | | Cobble bet. R. R. tracks, 15th to 17th street, cobble bet. R. R. tracks. |
| Do | Fifteenth street west | Twenty-second street west. | 56 | 1,729 | | | 1,900 | | | | |
| Do | Vermont avenue | Nineteenth street west. | 56 | *8,328 | | | | | | | |
| Do | Pennsylvania avenue | Twenty-second street west. | 32 | 6,493 | | | | | | | |

Character and extent of street pavements, July 1, 1886—Continued.
WASHINGTON—Continued.

| Street. | From— | To— | Carriageway. | | | | | | Remarks. |
|----------------|---------------|--------------------------|--------------|----------------------|----------|----------|-----------------------|----------|---|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | |
| | | | Feet. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | |
| L street south | South Capitol | Eastern Branch | 35 | | | | | | O. c. walk, curb and gutter, from 3d to 5th and 7th to 9th streets. |
| Do | do | Water street | 35 | | | | | | O. c. walk, curb and gutter, from 1st to 6th street. |
| M street north | North Capitol | First street east | 32 | | | | | | |
| Do | do | Boundary street | 32 | | | | | | |
| Do | do | New Jersey avenue | 32 | | | | | | |
| Do | do | North Capitol | 32 | | | | | | |
| Do | do | New Jersey avenue | 32 | | | | | | |
| Do | do | Sixth street west | 32 | 15,560 | | | | 2,845 | |
| Do | do | Fourteenth street west | 32 | 15,560 | | | | 7,364 | |
| Do | do | Sixteenth street west | 32 | 15,560 | | | | 4,266 | |
| Do | do | Eighteenth street west | 32 | 15,560 | | | | | |
| Do | do | South Capitol | 32 | 15,560 | | | | | |
| Do | do | Sixteenth street west | 32 | 15,560 | | | | | |
| Do | do | New Hampshire avenue | 40 | 11,875 | | | | 372 | |
| Do | do | Boundary | 40 | 9,171 | | | | | 6,084 square yards paved since 1878. |
| N street north | North Capitol | Twenty-sixth street west | 32 | | | | | | |
| Do | do | Boundary | 32 | | | | | | |
| Do | do | New Jersey avenue | 32 | | | | | | |
| Do | do | Fifth street west | 32 | | | | | | |
| Do | do | Ninth street west | 32 | 4,454 | | | | 2,844 | |
| Do | do | Fourteenth street west | 32 | 6,802 | | | | | |
| Do | do | Scott Square | 32 | 3,236 | | | | | |
| Do | do | Twenty-first street west | 32 | 7,074 | | | | | |
| Do | do | Rock Creek | 32 | | | | | 1,870 | |
| N street south | South Capitol | Sixth street west | 35 | | | | 12,520 | | |
| Do | do | Eastern Branch | 35 | | | | | | |
| O street north | North Capitol | Boundary | 32 | | | | | | |
| Do | do | New Jersey avenue | 32 | | | | | | |
| Do | do | Thirteenth street west | 32 | 14,530 | | | | | |
| Do | do | Sixteenth street west | 32 | 1,663 | | | | | |
| Do | do | Eighteenth street west | 32 | 1,697 | | | | | |
| Do | do | South Capitol | 32 | | | | | | |
| Do | do | Rock Creek | 32 | | | | | | |
| Do | do | Sixteenth street west | 32 | | | | | | |
| Do | do | Eastern Branch | 32 | | | | | | |
| Do | do | Water street | 32 | | | | | | |
| O street south | South Capitol | Boundary | 32 | | | | | | |
| P street north | North Capitol | New Jersey avenue | 32 | | | | | | O. c. walk, curb and gutter, Cobble bet. R. R. tracks. |
| Do | do | Eighteenth street west | 32 | 21,716 | | | | 7,091 | |
| Do | do | New Jersey avenue | 32 | | | | | | |

[illegible]

Character and extent of street pavements, July 1, 1886—Continued.

WASHINGTON—Continued.

| Street. | From— | To— | Carriageway. | | | | | | | Remarks. |
|-----------------------|------------------------------|------------------------------|--------------|----------------------|--------------------|-------------------|-----------------------|----------|----------|--|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | Gravel. |  | Unimproved. |
| Maryland avenue. | First street west. | Third street west. | Feet. 60 | Sq. yds. *3,704 | Sq. yds. 27,023 | Sq. yds. 1,611 | Sq. yds. 12,803 | Sq. yds. | Sq. yds. | Cobble bet R. R. tracks. Cobble bet. R. R. tracks. 3,494 square yards. Two roadways, one 29 and one 30. This includes the north and south side between 7th and 9th streets. |
| Do. | Third street west. | Seventh street west. | 60 | | | | | | | |
| Do. | Seventh street west. | Water street. | 29-30 | | | | | | | |
| Do. | First street east. | Fifteenth street east. | 60 | | | | | | | |
| Massachusetts avenue. | Boundary street. | Du Pont Circle. | 50 | 5,817 | | | | | 34,445 | |
| Do. | Du Pont Circle. | Scott Square. | 50 | 8,348 | | | | | | |
| Do. | Scott Square. | Thomas Circle. | 50 | 5,550 | | | | | | |
| Do. | Thomas Circle. | Ninth street west. | 50 | *12,010 | | | | | | |
| Do. | Seventh street west. | New Jersey avenue. | 50 | *11,213 | | | 2,546 | | | |
| Do. | New Jersey avenue. | Eleventh street east. | 50 | | | | | | 32,225 | |
| Do. | Eleventh street east. | Nineteenth street east. | 50 | | | | | | 20,000 | |
| Missouri avenue. | Third street west. | Four-and-a-half street west. | 35 | *2,502 | | | | | | |
| Do. | Four-and-a-half street west. | Sixth street west. | 35 | | | | 2,452 | | | |
| New Hampshire avenue. | Twenty-seventh street west. | G street north. | 50 | | | | | | | |
| Do. | Pennsylvania avenue. | do. | 50 | | | | 7,967 | | | 5,000 |
| Do. | do. | M street north. | 50 | *6,992 | | | | | | |
| Do. | do. | Du Pont Circle. | 50 | *10,047 | | | | | | |
| Do. | do. | Q street north. | 50 | *2,537 | | | | | | |
| Do. | Boundary. | Boundary. | 50 | | 1,177 | | | | | |
| New Jersey avenue. | B street north. | D street north. | 50 | 5,247 | | | 588 | | 14,084 | 7,872 |
| Do. | H street north. | H street north. | 60 | *14,274 | | | | | | |
| Do. | O street north. | O street north. | 50 | *10,861 | 7,000 | | | | | |
| Do. | Boundary. | Boundary. | 50 | | | | | | *14,826 | |
| Do. | B street south. | E street south. | 50 | *9,381 | | | | | | |
| Do. | E street south. | Canal. | 50 | 7,519 | | | | | | |
| Do. | Canal. | M street south. | 50 | | | | | 6,468 | | |
| Do. | M street south. | N street south. | 50 | | | | | | 3,112 | |

Gravel to Sixteenth street.
Cobble bet. R. R. tracks.

Character and extent of street pavements, July 1, 1885.—Continued.

WASHINGTON—Continued.

| Street. | From— | To— | Carriageway. | | | | | | Unimproved. | Iron arks. |
|--|------------------------------------|-------------------------------------|--------------|----------------------|----------|----------|-----------------------|----------|-------------|---|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | | |
| | | | Pct. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | |
| City Hall space..... | Third street west..... | Sixth street west..... | 60 | \$4,766 | \$5,897 | | 1,711 | | Sq. yds. | Cobble bet. R. R. tracks, 382 sq. yds. of asphalt blocks. |
| Intersection of Louisiana avenue, Seventh, and C streets, and of Louisiana and Ohio avenues..... | Tenth street west..... | Twelfth street west..... | 50 | \$3,214 | | | | | | Asphalt blocks. |
| Mount Vernon place..... | Seventh street west..... | Ninth street west..... | 50 | 3,460 | | | 885 | | | |
| Thomas circle..... | Intersection..... | Fourteenth and M sts. | 50 | \$3,890* | | | 718 | | | |
| Iowa circle..... | do..... | Thirteenth and P streets | 36 | \$6,000 | | | | | | |
| Scott square..... | do..... | Sixteenth and N streets | 36 | \$5,594 | | | | | | |
| Du Pont circle..... | do..... | Nineteenth and P streets | 65 | 12,500 | | | 1,228 | | | |
| Washington circle..... | do..... | Twenty-third and K sts. | 45 | 5,230 | | | 1,100 | | | |
| Opera square..... | do..... | Ninth and C streets..... | 56 | 6,083 | 600 | | | | | |
| California street..... | First street northeast..... | Second street northeast..... | 30 | | | | | | | |
| Callan street..... | Sixth street northeast..... | Seventh street northeast..... | 20 | | | | | | | |
| Carroll street..... | First street northeast..... | Second street northeast..... | 20 | | | | | | | |
| Caroline street..... | Fifteenth street north-west..... | Sixteenth street north-west..... | 24 | | | | | | | |
| Cedar street..... | Eighteenth street north-west..... | Nineteenth street north-west..... | 30 | | | | | | | |
| Chicago street..... | First street northeast..... | Second street northeast..... | 32 | | | | | | | |
| Columbia street..... | Q street northwest..... | Q street northwest..... | 30 | 2,886 | | | | | | |
| Corcoran street..... | Thirteenth street north-west..... | Fourteenth street north-west..... | 30 | 2,007 | | | | | | |
| do..... | Fourteenth street north-west..... | Seventeenth street north-west..... | 24 | 2,129 | | | | | | |
| Defrees street..... | First street northwest..... | North Capitol street..... | 22 | | | | | | | |
| De Sales street..... | Seventeenth street north-west..... | Connecticut avenue..... | 40 | 2,493 | | | | 1,937 | | |
| Elbridge street..... | Twentieth street north-west..... | Twenty-first street north-west..... | 20 | | | | | | | |
| Franklin street..... | New Jersey avenue..... | Fifth street west..... | 30 | | | | | | | |
| French street..... | Ninth street west..... | Tenth street west..... | 30 | | | | | | | |
| Grant place..... | do..... | do..... | 24 | 1,435 | | | | | | |

Cobble bet. R. R. tracks.
Do.Do.
Do.2,143
1,3672,030
1,3841,570
2,2851,033
1,0331,067
1,0331,033
1,435

| | | | | | | | | | |
|-------------------------|---|------|--------|-------|--|--------|-------|-------|-------|
| Highland Terrace..... | Fourteenth street west..... | 21-5 | 1,248 | | | | | | |
| Hillier Place..... | Twenty-first street west..... | 27 | *1,552 | | | | | | 2,131 |
| Ivy Place..... | New Jersey avenue..... | 35 | | | | | | | |
| Jackson street..... | First street east..... | 20 | | 1,738 | | | | | 1,151 |
| James street..... | Thirteenth street east..... | 20 | | | | | | | |
| Jefferson Place..... | Nineteenth street west..... | 27 | 1,393 | | | | | | 1,700 |
| Johnson Place..... | Connecticut avenue..... | 30 | | | | | | | 1,500 |
| Kingman Court..... | R street northwest..... | 30 | | | | | | | 1,700 |
| Kirby street..... | S street northwest..... | 30 | | | | | | | 1,570 |
| Laurens street..... | N street northwest..... | 32 | | | | | | | |
| Madison street..... | Eighteenth street north-west..... | 30 | | | | | | | 1,686 |
| Marion street..... | M street northwest..... | 30 | | | | | | 2,600 | |
| Monroe street..... | P street northwest..... | 24 | | | | | | 1,387 | |
| Myrtle street..... | Sixteenth street north..... | 30 | | | | | | | |
| Oregon street..... | North Capitol street..... | 20 | | | | | | 1,738 | 2,433 |
| Park street..... | Eighteenth street north-west..... | 30 | | | | | | | |
| Pierce Place..... | Eleventh street north-east..... | 30 | | | | | | 1,110 | |
| Pierce street..... | Twelfth street northeast..... | 30 | | | | | | 1,715 | |
| Ridge street..... | Sixteenth street north-west..... | 30 | 2,154 | | | | | | |
| Riggs street..... | Fifteenth street north-west..... | 30 | | | | | | | |
| Samson street..... | Fourth street northwest..... | 32 | | | | | | 2,674 | |
| School street..... | Thirteenth street north-west..... | 30 | | | | | | 1,845 | |
| Sherman street..... | Fourteenth street north-west..... | 24 | 2,674 | | | | | | 1,440 |
| Sunderland Place..... | Fourth and-a-half street northwest..... | 34 | | | | | 2,346 | | |
| Union street..... | Sixth street southwest..... | 20 | | | | | | 1,046 | |
| Washington street..... | Nineteenth street north-west..... | 30 | *1,185 | | | | | | |
| Wallack Place..... |do..... | 30 | | | | | | | |
| Warner street..... | O street south..... | 40 | | | | | 5,333 | | |
| Water street..... | Fourth street west..... | 35 | | | | | | 3,850 | |
| Do..... | Fifth street west..... | 30 | | | | | | | 1,983 |
| Do..... | Fourth street west..... | 30 | | | | | | 1,600 | |
| Do..... | New Jersey avenue..... | 30 | | | | | | | |
| Do..... | Twelfth street west..... | 50 | | | | 16,838 | | | |
| Do..... | Thirteen-and-a-half street west..... | 50 | | | | *2,827 | | | 2,729 |
| Do..... | Sixth street west..... | 50 | | | | *4,300 | | | |
| Do..... | Sixth street west..... | 50 | | | | | | | |
| Do..... | Seventh street west..... | 50 | | | | 3,359 | | | |
| Westminster street..... | Ninth street west..... | 30 | | | | | | | 1,777 |

Character and extent of street pavements, July 1, 1886—Continued.
 GEORGETOWN.

[Streets marked thus * have been paved since July 1, 1878.]

| Street. | From— | To— | Carriageway. | | | | | | Remarks. |
|----------------------------|---------------------------|----------------------------|--------------|----------------------|----------|----------|-----------------------|----------|-------------|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | |
| | | | Feet. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. |
| M street..... | Rock Creek..... | Thirty-first street..... | 50 | 9,026 | 13,084 | | | | Unimproved. |
| Do..... | Thirty-first street..... | Thirty-sixth street..... | 50 | | 17,823 | | | | |
| Water street..... | Rock Creek..... | Aqueduct..... | 50 | | 18,021 | | | | |
| Olive street..... | do..... | Twenty-eighth street..... | 44 | | | | | | |
| Do..... | Twenty-eighth street..... | Thirtieth street..... | 30 | | | | | | |
| Prospect street..... | Potomac..... | Potomac..... | 30 | | | | 1,946 | | 1,566 |
| Do..... | Rock Creek..... | Thirty-sixth street..... | 30 | | | | | | |
| N street..... | Rock Creek..... | Twenty-eighth street..... | 30 | | | | 859 | | 4,339 |
| Do..... | Rock Creek..... | Thirty-second street..... | 30 | *5,505 | | | | | 870 |
| Do..... | Rock Creek..... | Thirty-fifth street..... | 30 | *5,689 | | | | | |
| Do..... | Rock Creek..... | Thirty-seventh street..... | 30 | | | | | | |
| O street..... | Thirty-second street..... | Thirty-fifth street..... | 30 | | *4,435 | | 780 | | 3,253 |
| Do..... | Rock Creek..... | Thirty-seventh street..... | 30 | | | | | 2,283 | |
| Do..... | Rock Creek..... | Twenty-ninth street..... | 30 | | | | | | |
| Do..... | Twenty-ninth street..... | Thirty-second street..... | 30 | *4,829 | | | 444 | 2,000 | 1,166 |
| Dunbar street..... | do..... | Thirty-first street..... | 30 | | | | 1,758 | 2,072 | |
| Do..... | Thirty-first street..... | Thirty-second street..... | 30 | | | | | | |
| Do..... | Twenty-eighth street..... | Rock Creek..... | 30 | | | | | 6,083 | |
| Do..... | Twenty-eighth street..... | Rock Creek..... | 30 | | | | 765 | | 3,166 |
| P street..... | Rock Creek..... | Thirty-seventh street..... | 30 | *4,350 | | | | | 2,084 |
| Do..... | Rock Creek..... | Thirty-eighth street..... | 40 | | | | | | |
| Do..... | Twenty-eighth street..... | Thirty-second street..... | 30 | *10,880 | | | 4,113 | | 3,800 |
| Q street..... | Thirty-second street..... | Thirty-fifth street..... | 30 | | | | | | |
| Do..... | do..... | Twenty-eighth street..... | 30 | | | | | | 6,867 |
| Do..... | do..... | Thirty-fifth street..... | 30 | | | | | | |
| R street..... | do..... | Thirty-fifth street..... | 30 | | | | | | 3,365 |
| S street..... | Thirty-second street..... | do..... | 30 | | | | | | 2,577 |
| T street..... | Thirty-third street..... | do..... | 30 | | | | | | 2,567 |
| Do..... | do..... | do..... | 30 | | | | | | 2,067 |
| Do..... | do..... | Twenty-eighth street..... | 30 | | | | | | |
| Twenty-seventh street..... | M street..... | P street..... | 30 | | | | | 9,000 | 4,750 |

| | | | | | | |
|-----------------------|-----------------|----|-----------------------|--------|--------|---|
| Twenty-eighth street. | P street. | do | U street. | 5,479 | 4,610 | |
| Do. | M street. | 30 | Water street. | 2,919 | | |
| Twenty-ninth street. | P street. | 30 | P street. | *1,885 | | O. c. walk, curb, and gutter. |
| Do. | do | 30 | U street. | *2,940 | 4,610 | |
| Do. | M street. | 30 | Water street. | | | Do. |
| Thirtieth street. | P street. | 30 | Water street. | 2,733 | | Do. |
| Do. | do | 30 | N street. | *2,121 | | Do. |
| Do. | N street. | 30 | P street. | *2,932 | *1,310 | |
| Do. | do | 30 | Q street. | | | |
| Do. | P street. | 30 | Water street. | *2,746 | | |
| Do. | M street. | 30 | Water street. | 2,839 | | |
| Do. | do | 32 | do | 3,054 | | |
| Do. | P street. | 30 | P street. | *2,932 | | |
| Do. | do | 30 | U street. | *1,742 | | |
| Do. | M street. | 30 | Water street. | *3,285 | | |
| Do. | do | 35 | Water street. | 3,540 | | |
| Do. | P street. | 35 | P street. | *6,202 | | |
| Do. | do | 35 | Canal. | 6,416 | | |
| Potomac street. | M street. | 30 | Canal. | 1,071 | | |
| Do. | do | 30 | O street. | *1,053 | | |
| Do. | N street. | 30 | P street. | | 1,750 | |
| Do. | P street. | 30 | Thirty-second street. | *2,050 | | O. c. walk, curb, and gutter on one side. |
| Do. | do | 30 | Canal. | | 4,834 | |
| Do. | M street. | 30 | Canal. | 1,071 | | |
| Do. | do | 30 | Thirty-second street. | | 13,334 | |
| Do. | P street. | 30 | P street. | 975 | | |
| Do. | do | 30 | P street. | | 17,300 | |
| Do. | P street. | 30 | do | | 3,166 | |
| Do. | M street. | 30 | do | | 4,167 | |
| Do. | P street. | 30 | North street. | | 1,500 | East side improved. |
| Do. | Potomac street. | 20 | Thirty-second street. | 1,328 | | |
| Do. | P street. | 20 | Mill street. | | | |

SUMMARY STATEMENT.

| | Carriageway. | Length. | Sq. yards. | Miles. |
|----------------------|--------------|-----------|------------|--------|
| | | | | |
| Concrete | | Feet. | | |
| Granite and trap | | 353,065 | 1,551,430 | 67.00 |
| Wood | | 111,713 | 357,866 | 21.35 |
| Cobble and blue rock | | 1,173 | 7,096 | 21.32 |
| Macadam | | 73,810 | 539,004 | 13.98 |
| Gravel | | 43,268 | 225,009 | 8.19 |
| | | 192,923 | 733,302 | 36.53 |
| Total improved | | 776,554 | 3,588,683 | 147.07 |
| Unimproved | | 456,193 | 1,587,923 | 86.40 |
| | | 1,232,747 | 5,176,606 | 233.47 |

E.—REPORT OF THE COLLECTOR OF TAXES.

OFFICE OF THE COLLECTOR OF TAXES,
DISTRICT OF COLUMBIA,
Washington, November 1, 1886.

GENTLEMEN: I have the honor to submit the following report, showing the amount of tax balances with which this office was debited at the beginning of the fiscal year commencing July 1, 1885; also the amount of tax levies, real and personal, for the year ending June 30, 1886, received for collection November 1, 1885, together with the amounts received for collection on account of the water fund, licenses, dog-tax, fees, penalties, &c., and the amount collected on account of the same during the fiscal year ending June 30, 1886.

A report is also submitted showing the amounts collected on account of special assessments for improvements done under the late Board of Public Works:

| | DR. | CR. |
|---|------------------------------------|----------------------|
| | To amount received for collection. | By amount collected. |
| To balance of taxes due July 1, 1885, as follows: | | |
| Realty tax— | | |
| For the years 1845 to 1870..... | | \$1,016 82 |
| For the year ending June 30— | | |
| 1872..... | | 702 55 |
| 1873..... | \$9,193 23 | 3,323 27 |
| 1874..... | 44 033 28 | 2,990 75 |
| 1875..... | 76,175 21 | 6,123 15 |
| 1876..... | 25,989 95 | 2,797 87 |
| 1877..... | 49,810 66 | 4,027 56 |
| 1878..... | 41,552 61 | 5,398 74 |
| 1879..... | 53,700 49 | 6,739 48 |
| 1880..... | 69,503 16 | 8,420 19 |
| 1881..... | 70,081 81 | 10,661 24 |
| 1882..... | 73,561 90 | 11,516 04 |
| 1883..... | 84,143 42 | 14,977 14 |
| 1884..... | 100,640 17 | 27,678 83 |
| 1885..... | 192,122 08 | 93,119 73 |
| 1886..... | 1,421,552 09 | 1,240,834 51 |
| Personal tax:— | \$2,312,260 06 | \$1,440,327 87 |
| For the year ending June 30— | | |
| 1877..... | 30,073 56 | 6 72 |
| 1878..... | 72,594 24 | 766 72 |
| 1879..... | 34,591 00 | 190 65 |
| 1880..... | 17,282 05 | 1,240 13 |
| 1881..... | 23,342 19 | 40 00 |
| 1882..... | 7,672 59 | 54 02 |
| 1883..... | | 54 02 |
| 1884..... | 7,269 22 | 54 02 |
| 1885..... | 35,473 46 | 7,542 46 |
| 1886..... | 187,994 96 | 150,058 18 |
| To amount collected in excess of what was charged to collector on account of assessment of general tax arrears, 1845 to 1870..... | 1,016 82 | |
| To amount collected in excess of what was charged to collector on account of assessment of general tax for year 1872..... | 702 55 | |
| To amount collected in excess of what was charged to collector on account of assessment of personal tax for year 1883..... | 54 02 | |
| To amount of penalty on realty taxes, as follows: | | |
| For the years 1845 to 1870..... | | 873 73 |
| For the year ending June 30— | | |
| 1872..... | | 574 06 |
| 1873..... | 3,970 32 | 3,970 52 |
| 1874..... | 3,506 42 | 3,506 42 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 267

| | Dr. | Cr. |
|---|------------------------------------|----------------------|
| | To amount received for collection. | To amount collected. |
| To amount of penalty on realty taxes, as follows—Continued. | | |
| For the year ending June 30— | | |
| 1875..... | \$5,595 31 | \$5,595 31 |
| 1876..... | 3,426 01 | 3,426 01 |
| 1877..... | 3,848 15 | 3,848 15 |
| 1878..... | 5,094 88 | 5,094 88 |
| 1879..... | 5,945 15 | 5,945 15 |
| 1880..... | 5,998 05 | 5,998 05 |
| 1881..... | 6,539 23 | 6,539 23 |
| 1882..... | 5,825 45 | 5,825 45 |
| 1883..... | 5,823 00 | 5,823 00 |
| 1884..... | 7,537 97 | 7,537 97 |
| 1885..... | 11,983 52 | 11,983 52 |
| 1886..... | 7,230 65 | 7,230 65 |
| | \$82,324 31 | \$83,772 10 |
| To amount of penalty on personal taxes, as follows: | | |
| For the year ending June 30— | | |
| 1877..... | 10 | 10 |
| 1878..... | | |
| 1879..... | 3 65 | 3 65 |
| 1880..... | | |
| 1881..... | | |
| 1882..... | | |
| 1883..... | | |
| 1884..... | | |
| 1885..... | 823 26 | 823 26 |
| 1886..... | 600 04 | 600 04 |
| | 1,427 05 | 1,427 05 |
| To amount of penalty on taxes collected in excess of what was charged to collector on account of assessment of general tax arrears, 1845 to 1870..... | 873 73 | |
| To amount of penalty on taxes collected in excess of what was charged to collector on account of assessment of general tax for year 1872..... | 574 06 | |
| To amount of penalty on taxes collected in excess of what was charged to collector on account of assessment of personal tax for year 1883..... | | |
| To amount of miscellaneous items received for collection: | | |
| Washington redemption fund— | | |
| Principal..... | \$544 28 | |
| Interest..... | 39 24 | |
| | 583 52 | 583 52 |
| Special taxes— | | |
| Principal..... | 4,998 21 | |
| Interest..... | 7,450 04 | |
| | 12,448 25 | 12,448 25 |
| License..... | 156,263 67 | 156,263 67 |
| Dog-tax..... | 14,124 09 | 14,124 09 |
| Permit fees..... | 3,360 00 | 3,360 00 |
| Fees for certificates..... | 2,803 00 | 2,803 00 |
| Material furnished plumbers..... | 68 53 | 68 53 |
| Advertising tax arrears (1875 to 1885)..... | 3,251 31 | 3,251 31 |
| Advertising special assessments..... | 310 78 | 310 78 |
| Market rents: | | |
| Eastern..... | \$2,649 50 | |
| Western..... | 5,911 80 | |
| Georgetown..... | 1,208 16 | |
| Washington..... | 7,500 00 | |
| | 17,269 46 | 17,269 46 |
| Police court fines: | | |
| United States..... | 11,796 92 | |
| District of Columbia..... | 26,179 01 | |
| | 37,946 53 | 37,946 53 |
| Criminal court fines..... | 1,790 80 | 1,790 80 |
| Collections by assistant District attorney..... | 30 00 | 30 00 |
| Building permits..... | 8,571 00 | 8,571 00 |
| Redemption of assessment certificates..... | 216 54 | 216 54 |
| Sale of hay scales..... | 829 95 | 829 95 |
| Sale of fish wharf and stalls..... | 363 62 | 363 62 |
| Sale of old material..... | 380 25 | 380 26 |
| Auctioneers' returns from special sales..... | 269 63 | 269 62 |
| Bills receivable (Western market)..... | 416 02 | 416 02 |
| Pound fees..... | 419 75 | 419 75 |

268 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

| | DR. | CR. |
|---|------------------------------------|----------------------|
| | To amount received for collection. | By amount collected. |
| Rent of District of Columbia property..... | \$3,925 00 | \$3,925 00 |
| Fines in appeal cases | 318 35 | 318 35 |
| Forfeiture of unclaimed bar deposits | 383 34 | 383 34 |
| Forfeiture of recognizance | 317 90 | 317 90 |
| Sale of vegetables (Washington Asylum)..... | 25 58 | 25 58 |
| Sale of old horses | 104 40 | 104 40 |
| Use of steam engine | 15 00 | 15 00 |
| Market rents (balances unclassified)..... | 41 08 | 41 08 |
| | \$266,846 75 | \$266,846 75 |
| Water main taxes, advertised— | | |
| Principal | \$3,637 71 | |
| Interest..... | 2,376 53 | |
| | 6,014 24 | |
| Water rents, taps, permits, &c | 163,997 71 | |
| | 170,011 95 | 170,011 95 |
| By balance of unpaid taxes July 1, 1886— | | |
| Realty tax | | 873,651 56 |
| Personal tax | | 256,340 37 |
| | | 1,129,991 93 |
| Total | 3,252,384 57 | 3,252,384 57 |

RECAPITULATION.

| | |
|---|----------------|
| To amount of realty tax collected during the year 1886..... | \$1,440,327 87 |
| To amount of personal tax collected during the year 1886..... | 160,006 92 |
| To amount collected on account of miscellaneous items | 266,846 75 |
| To amount collected on account of penalties..... | 85,199 15 |
| To amount collected on account of water fund..... | 170,011 95 |
| To balance of uncollected taxes, real and personal..... | 1,129,991 93 |
| Total | 3,252,384 57 |

PER CONTRA.

| | |
|--|----------------|
| By cash deposited with the Treasurer United States | \$2,104,238 67 |
| By drawback certificates deposited..... | 17,244 01 |
| By tax-lien certificates deposited | 909 96 |
| By balance of uncollected taxes, real and personal..... | 1,129,991 93 |
| Total | 3,252,384 57 |

The following items in the above exhibit were collected through this office for the use of third parties holding the liens representing the taxes :

| | |
|--|-------------|
| Special taxes, principal and interest..... | \$12,448 25 |
| Washington redemption fund, principal and interest | 583 52 |
| General taxes for the years ending June 30, 1872 and 1873, represented by tax-lien certificates, principal and interest..... | 5,614 96 |
| Total..... | 18,646 73 |

Upon revision by the auditor of the books of the assessor, the balances due July 1, 1885, have been increased as follows :

| | |
|------------------------------|----------|
| Realty tax levy, 1884..... | \$203 96 |
| Realty tax levy, 1885..... | 186 39 |
| Personal tax levy, 1884..... | 3 75 |
| Personal tax levy, 1885..... | 1,203 72 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 269

SPECIAL ASSESSMENTS.

Certificate account.

| Months. | Bonds. | | Coupons. | | Drawbacks. | Cash. | Total. |
|-----------------|------------|-----------|------------|-----------|------------|----------|------------|
| | Principal. | Interest. | Principal. | Interest. | | | |
| 1885. | | | | | | | |
| July | | | | | \$6,605 74 | \$275 92 | \$6,881 66 |
| August | \$150 00 | \$76 14 | \$44 00 | \$25 39 | 5,167 38 | 286 69 | 5,749 00 |
| September | 2,550 00 | 1,408 28 | 288 00 | 154 68 | 4,924 16 | 311 60 | 9,636 72 |
| October | 1,600 00 | 1,039 39 | 68 00 | 37 68 | 193 80 | 757 43 | 3,696 30 |
| November | 3,200 00 | 1,901 40 | 348 00 | 202 05 | 43 00 | 1,887 36 | 7,581 81 |
| December | 8,350 00 | 4,736 37 | 1,270 00 | 739 54 | 182 12 | 834 95 | 16,112 98 |
| 1886. | | | | | | | |
| January | 4,100 00 | 2,288 17 | 776 00 | 448 40 | 196 69 | 947 55 | 8,756 81 |
| February | 3,200 00 | 1,866 89 | 444 00 | 264 17 | 54 36 | 369 76 | 6,199 18 |
| March | 3,950 00 | 2,278 34 | 628 00 | 367 88 | 53 95 | 686 35 | 7,964 52 |
| April | 1,750 00 | 941 48 | 422 00 | 243 76 | 257 35 | 704 99 | 4,319 58 |
| May | 3,750 00 | 2,138 84 | 678 00 | 400 65 | 201 60 | 1,315 91 | 8,485 00 |
| June | 3,450 00 | 2,200 84 | 408 00 | 241 21 | 13 01 | 1,166 93 | 7,479 99 |
| Total | 36,050 00 | 20,876 14 | 5,374 00 | 3,125 41 | 17,893 16 | 9,545 44 | 92,864 15 |

First National Bank account.

| Months. | Bonds. | | Coupons. | | Cash. | Total. |
|----------------|------------|-----------|------------|-----------|---------|---------|
| | Principal. | Interest. | Principal. | Interest. | | |
| 1885. | | | | | | |
| October | | | | | \$33 30 | \$33 30 |
| November | | | | | 5 33 | 5 33 |
| December | \$150 00 | \$85 32 | \$24 00 | \$14 00 | 14 54 | 287 86 |
| 1886. | | | | | | |
| January | | | | | 135 83 | 135 83 |
| May | | | | | 27 54 | 27 54 |
| Total | 150 00 | 85 32 | 24 00 | 14 00 | 216 54 | 489 86 |

General account.

| Months. | Bonds. | | Cash. | Total. |
|----------------|------------|-----------|---------|---------|
| | Principal. | Interest. | | |
| 1885. | | | | |
| July | | | \$35 80 | \$35 80 |
| October | | | 39 42 | 39 42 |
| December | | | 291 49 | 291 49 |
| 1886. | | | | |
| January | \$50 00 | \$28 68 | 118 04 | 196 72 |
| April | | | 87 42 | 87 42 |
| June | | | 8 15 | 8 15 |
| Total | 50 00 | 28 68 | 580 32 | 659 00 |

270 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Condemnation of alleys, and costs attending tax sales.

| Months. | Condemnation of alleys. | Costs. | Months. | Condemnation of alleys. | Costs. |
|-----------------|-------------------------|--------|----------------|-------------------------|---------|
| 1885. | | | 1886. | | |
| July | \$275 55 | \$6 00 | February | | \$12 84 |
| August | | 7 15 | March | \$17 22 | 25 20 |
| September | 12 50 | 10 83 | April | | 7 15 |
| October | | 38 63 | May | 8 33 | 31 55 |
| November | | 37 07 | Total | 579 16 | 310 78 |
| December | 11 18 | 18 23 | | | |
| 1886. | | | | | |
| January | 254 38 | 116 13 | | | |

RECAPITULATION.

| | |
|-----------------------------------|-----------|
| General account | \$659 00 |
| Certificate account | 92,864 15 |
| First National Bank account | 489 86 |
| Condemnation of alleys | 579 16 |
| Costs | 310 78 |
| Total | 94,902 95 |

While this report shows a large per cent. of arrears on real estate, much of it could be reduced by the elimination from accounts of the amounts charged against the collector for church, school, asylum, and other such property clearly exempt, and an audit of this arrearage would leave a reliable debit balance not so discreditable to the city in its amount. An examination shows a large share due from property, the perfection of the titles of which are awaiting pending legislation in Congress, and another percentage on estates, the life income of which inures to some and the fee-title descends to others.

On quite a percentage of the property in question, the accumulated amount of yearly tax levies, with accrued penalty, interest, and other costs, together with several assessments for special improvements by both the late corporation of Washington and the District of Columbia, about equal or even exceed, in a few cases, in valuation the property, making it a consideration with the holder whether to pay the tax or merely continue the use of the property until some law is enacted or means devised for enforcement of the collection of the tax deprives him of it. Authority should be by law vested in the Commissioners of the District, or the courts on application of the Commissioners, to adjust cases of this kind by some reasonable assessment whereby the property will become tax productive.

Of the personal-tax arrears in previous annual exhibits the office has called attention to the origin and condition of this seeming delinquency, being where parties supposed to have large quantities of valuables, and failing to make returns thereof on schedules sent to them, were arbitrarily assessed in an amount they were supposed to be possessed of; a tax levied on said amount, and a penalty of 50 per cent. added for failure to make return, all of which was as provided by law. All effort or attempt on the part of the collector, his assistants selected from the associate departments of accounts of the District, and members of the police force of special adaptation, have failed to find any basis for the tax; hence the consequent condition—a large personal-tax arrearage on paper.

Some considerable arrears of taxes are awaiting a final action of a measure proposed in Congress at its last session, whereby tax-payers may be enabled to pay the taxes in arrears, with 6 per cent. interest

from the respective times they were due and in arrears, in lieu of penalties and other costs attached. Such measures delay collection until final action is taken in favor of or against the proposed measure. Hence the necessity of immediate attention.

The exhibit of arrears of realty tax, as provided by Congress at its last session has progressed to the extent of listing in the pamphlet containing the delinquent tax list for the year ending June 30, 1886, the arrears shown to be due by the tax ledgers. A comprehensive plan of the manner in which it is proposed to make a complete presentation of all arrears of taxes due the District of Columbia has been placed before you for your approval, and when that plan or such other as may meet your approval is adopted, the office will endeavor to hasten its preparation, but as a necessary preliminary before transcribing to a permanent record a statement should be prepared showing all property exempt by law from taxation, property on which taxation has ceased, and especially property purchased by the District of Columbia and United States Governments on which taxes were due at the time of the purchase and the amount of the same retained from purchase money, but for which the collector has received no credit, should be eliminated from the books and from the balance of taxes due as charged to the collector on the books of the United States Treasury Department.

Respectfully submitted.

JOHN F. COOK,
Collector of Taxes.

The COMMISSIONERS, DISTRICT OF COLUMBIA.

F.—REPORT OF THE ASSESSOR.

ASSESSOR'S OFFICE, DISTRICT OF COLUMBIA,
October 30, 1886.

GENTLEMEN: I have the honor to present the following statement from this office for the fiscal year ended June 30, 1886:

LICENSES.

Three thousand nine hundred and forty-eight licenses were issued, for which there was paid to the collector of taxes \$156,455.72, being a total increase of \$11,809.72 over the previous year, from an addition of 257 licenses, principally liquor dealers.

| | Totals. | Increase. | Decrease. |
|-------------------------------------|-----------|-----------|-----------|
| Apothecaries..... | \$540 04 | \$42 02 | |
| Auctioneers..... | 1,297 38 | | \$176 18 |
| Book agents..... | 249 28 | | 19 97 |
| Brokers..... | 100 00 | | |
| Banks and bankers..... | 375 57 | | 29 91 |
| Bar-rooms..... | 72,901 88 | 8,168 67 | |
| Brewers..... | 125 00 | | 25 00 |
| Bill posters..... | 23 34 | 3 34 | |
| Billiard and other tables, &c..... | 2,518 49 | | 264 22 |
| Commercial agents..... | 13,300 15 | | 1,549 34 |
| Cattle brokers..... | 695 03 | 46 66 | |
| Commission merchants..... | 2,425 86 | | 73 39 |
| Claim agents..... | 15 00 | | 61 25 |
| Dealers in ice..... | 113 34 | | 3 33 |
| Dealers in liquors (wholesale)..... | 15,322 22 | 969 40 | |
| Dealers in junk..... | 1,360 00 | | 240 00 |
| Dealers in old barrels..... | 70 00 | | 13 34 |

| | Total. | Increase. | Decrease. |
|--|------------|-----------|-----------|
| Entertainments, circuses, &c | \$2,850 00 | \$115 00 | ..... |
| Hacks, cabs, omnibuses, &c | 2,376 43 | 187 88 | ..... |
| Hotels | 2,438 08 | | \$184 18 |
| Intelligence offices | 34 33 | | 82 |
| Insurance companies and their agents | 7,796 50 | 933 09 | ..... |
| Livery stables | 2,595 50 | 52 33 | ..... |
| Manufactures of illuminating gas | 1,072 00 |  | ..... |
| Peddlers | 2,650 47 | 346 18 | ..... |
| Pawnbrokers | 1,520 84 | | 62 50 |
| Produce dealers at large | 6,977 89 | 502 50 | ..... |
| Produce dealers in market | 5,296 14 | 1,569 40 | ..... |
| Restaurants | 4,222 95 | 162 50 | ..... |
| Real-estate agents | 4,222 38 | 1,691 78 | ..... |
| Theaters | 875 01 | .. | 295 00 |
| Total | 136,455 72 | 14,808 75 | 2,999 03 |
| | | 2,999 03 | |
| Total increase | | 11,809 72 | |

The total number of bar-rooms now licensed is 789, and wholesale liquor dealers 595, being a larger number than heretofore.

CERTIFICATES.

Five thousand six hundred and four certificates were issued by Assistant Assessor William Morgan to the collector under the act of February 6, 1879, bringing a revenue of \$2,802 and showing a large increase in the transfers of property over previous years.

NEW ASSESSMENT.

The twelve assessors appointed under the act of March 3, 1883, were duly qualified, and entered upon their field duties on March 3 last, and the result of their labors was returned to the office on the first Monday of June, as required by section 7 of the above act.

The board of equalization was organized on that date under section 9, and held daily sessions up to and to include August 2.

The twelve assessment books were placed before the tax-payers and every facility offered for complaints.

All appeals as presented were properly considered, and each applicant was notified by letter of the action of the board in his or her case.

The total assessment, as revised, is not less than the original returns of the assessors, as required by law.

Statement of the assessed value of the real estate of the District of Columbia on June 30, 1886.

Washington:

| | |
|---|--------------------|
| Taxable | \$96,388,486 |
| District of Columbia, property of | 1,838,333 |
| Exempt from taxation | 5,238,068 |
| United States, property of | 101,986,386 |
| | <u>205,451,273</u> |

Georgetown:

| | |
|---|--------------------|
| Taxable | 4,741,540 |
| District of Columbia, property of | 165,839 |
| Exempt from taxation | 328,488 |
| United States, property of | 132,987 |
| | <u>\$5,368,854</u> |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 273

County :

| | |
|--|---------------|
| Taxable at \$1.50 | \$3, 442, 344 |
| Taxable at \$1..... | 3, 729, 731 |
| District of Columbia, property of..... | 54, 600 |
| Exempt | 788, 078 |
| United States, property of..... | 3, 270, 311 |

\$11, 285, 064

Total in the District of Columbia.....\$222, 105, 191

Amount taxable:

| | |
|------------------|--------------|
| Washington | 96, 388, 486 |
| Georgetown | 4, 741, 540 |
| County | 7, 172, 075 |

108, 302, 101

Personal.....11, 934, 245

\$120, 236, 346

The assessed value of the real estate taxable in the District of Columbia on June 30, 1886, is \$108,292,101, and of personal property is \$11,934,245.

AMOUNT OF TAX FOR 1886-'87.

| | |
|---|---------------|
| Washington, \$96,388,486, at \$1.50 | \$1, 445, 827 |
| Georgetown, \$4,741,540, at \$1.50 | 71, 123 |
| County, \$3,442,344, at \$1.50 | 51, 635 |
| County, agricultural, 3,729,731, at \$1 | 37, 297 |

Total real-estate tax

1, 605, 882

Personal, \$11,934,245, at \$1.50

179, 013

Total real and personal tax

1, 784, 895

Taxable, realty

108, 302, 101

Non-taxable:

| | |
|-------------------------------------|---------------|
| United States property | 105, 389, 684 |
| District of Columbia property | 2, 058, 772 |
| Exempt | 6, 354, 634 |

Total realty

\$222, 105, 191

HOUSES.

The number of houses in the District of Columbia are—

| | |
|---|----------------|
| District No. 1, county east of Eastern Branch | 882 |
| District No. 2, county between Eastern Branch and Rock Creek | 1, 664 |
| District No. 3, county west of Rock Creek | 569 |
| | <u>3, 115</u> |
| District No. 3, Georgetown | 2, 549 |
| District No. 4, west of Nineteenth street west | 3, 100 |
| District No. 5, between Nineteenth and Fifteenth streets west | 2, 127 |
| District No. 6, between Fifteenth and Tenth streets west | 4, 797 |
| District No. 7, between Tenth and Sixth streets west | 4, 660 |
| District No. 8, between Sixth and First streets west | 6, 026 |
| District No. 9, between First street west and First street east | 1, 860 |
| District No. 10, between First and Sixth streets east | 2, 882 |
| District No. 11, between Sixth and Eleventh streets east | 2, 442 |
| District No. 12, between Eleventh and Boundary streets | 1, 192 |
| | <u>29, 086</u> |

34, 750

RECAPITULATION.

| | |
|---------------------|---------|
| In the county | 3, 115 |
| In Georgetown | 2, 549 |
| In Washington | 29, 086 |

Total

34, 750

This includes all except the Government buildings.

The tax ledgers for the city have been increased in number from four in 1879 to eight for the coming year, and for the county from one in 1883 to three at this time.

I can make no further or better recommendations for increasing the efficiency of the office than those heretofore submitted in my several annual reports, to which your attention is respectfully invited.

The employés of the office are entitled to special commendation for their true and faithful services.

Very respectfully, your obedient servant,

ROBT. P. DODGE,
Assessor, District of Columbia.

To the COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

G.—REPORT OF THE CORONER.

CORONER'S OFFICE, DISTRICT OF COLUMBIA,
Washington, D. C., November 4, 1886.

GENTLEMEN: In compliance with your request, I have the honor to transmit herewith a tabular statement showing the operations of this office for the year ended June 30, 1886.

I desire to call your attention to the great inconvenience to coroner's jurors, attendant upon the manner in which they are paid, and which is a constant source of complaint, they being obliged in all cases to make two visits to the auditor for the one dollar allowed for one day's service. I respectfully suggest that some plan be devised (if it can be done lawfully) by which the coroner may be authorized to pay when the service is rendered.

Respectfully, your obedient servant,

D. C. PATTERSON
Coroner.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Statement of deaths certified by the coroner during the year ending June 30, 1886.

Willful violence—

Suicides:

| | |
|--------------------------|---|
| By gunshot wounds | 5 |
| By incised wounds | 3 |
| By irritant poison | 2 |
| By narcotic poison | 1 |
| By hanging | 2 |

Homicides:

| | |
|--|----|
| By gunshot wounds | 9 |
| By incised wounds | 2 |
| By other weapons and missiles | 7 |
| By infanticides and neglect at birth | 20 |

Accidents and negligence:

| | |
|---|----|
| Burns | 2 |
| Crushed by embankments, &c | 4 |
| Drowning | 23 |
| Explosion of dynamite | 1 |
| Exposure to cold | 4 |
| Fall of elevator | 1 |
| Fracture of skull and neck from falls | 8 |
| Hemorrhage of cord | 1 |
| Improper food | 1 |
| Neglect at birth | 2 |
| Overlaid by mother | 7 |
| Poison, narcotic | 1 |

Accidents and negligence—Continued.

| | |
|---|-----|
| Run over by cars | 9 |
| Suffocation by gas | 2 |
| Suffocation by smoke | 1 |
| Sunstroke | 2 |
| Diseases: | |
| Alcoholism | 1 |
| Anasarca | 6 |
| Aneurism of aorta | 5 |
| Angina pectoris | 1 |
| Apoplexy, cerebral | 18 |
| Apoplexy, pulmonary | 1 |
| Asthenia | 2 |
| Asthma | 1 |
| Atelectasis | 1 |
| Bright's disease | 4 |
| Bronchitis, capillary | 17 |
| Bronchitis, chronic | 1 |
| Cancer, uterine | 1 |
| Cholera infantum | 16 |
| Cirrhosis of kidneys | 1 |
| Congestion of brain | 2 |
| Congestion of lungs | 26 |
| Convulsions | 10 |
| Convulsions, infantile | 1 |
| Croup | 3 |
| Cyanosis | 1 |
| Debility, congenital | 29 |
| Debility, senile | 3 |
| Dementia, senile | 1 |
| Dentition | 2 |
| Diarrhea | 12 |
| Diphtheria | 1 |
| Dropsy of pericardium | 4 |
| Dysentery | 2 |
| Embolism | 1 |
| Enteritis | 1 |
| Epilepsy | 2 |
| Fever, congestive | 2 |
| Fever, puerperal | 1 |
| Fever, scarlet | 2 |
| Fever, typhoid | 1 |
| Gastritis | 4 |
| Hemorrhage of bowels | 1 |
| Heart disease | 18 |
| Hip-joint disease | 1 |
| Inanition | 18 |
| Intussusception | 1 |
| Laryngitis | 2 |
| Marasmus | 1 |
| Paralysis | 4 |
| Pertussis | 2 |
| Phthisis pulmonalis | 32 |
| Pneumonia | 22 |
| Rheumatism | 3 |
| Scrofula | 1 |
| Tabes mesenterica | 1 |
| Trismus nascentium | 18 |
| Still-births, known | 17 |
| Still-births, unknown | 42 |
| Total suicides | 13 |
| Total homicides | 18 |
| Total infanticides, &c | 20 |
| Total by accidents and negligence | 69 |
| Total by disease | 312 |
| Total by still births | 59 |

Total of all cases certified by the coroner 491

Whole number of white deaths, 139 = 28.31 per cent.; whole number of colored deaths, 352 = 71.69 per cent.

This includes all except the Government buildings.

The tax ledgers for the city have been increased in number from four in 1879 to eight for the coming year, and for the county from one in 1883 to three at this time.

I can make no further or better recommendations for increasing the efficiency of the office than those heretofore submitted in my several annual reports, to which your attention is respectfully invited.

The employes of the office are entitled to special commendation for their true and faithful services.

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Assessor, District of Columbia.

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Respectfully, your obedient servant,

D. C. PATTERSON

Coroner.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

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Willful violence—

Suicides:

| | |
|--------------------------|---|
| By gunshot wounds | 5 |
| By incised wounds | 3 |
| By irritant poison | 2 |
| By narcotic poison | 1 |
| By hanging | 2 |

Homicides:

| | |
|--|----|
| By gunshot wounds' | 9 |
| By incised wounds | 2 |
| By other weapons and missiles | 7 |
| By infanticides and neglect at birth | 20 |

Accidents and negligence:

| | |
|---|----|
| Burns | 2 |
| Crushed by embankments, &c. | 4 |
| Drowning | 23 |
| Explosion of dynamite | 1 |
| Exposure to cold | 4 |
| Fall of elevator | 1 |
| Fracture of skull and neck from falls | 1 |
| Hemorrhage of cord | 8 |
| Improper food | 1 |
| Neglect at birth | 1 |
| Overlaid by mother | 2 |
| Poison, narcotic | 7 |
| ..... | 1 |

Accidents and negligence—Continued.

| | |
|----------------------------|---|
| Run over by cars | 9 |
| Suffocation by gas | 2 |
| Suffocation by smoke | 1 |
| Sunstroke | 2 |

Diseases:

| | |
|------------------------------|----|
| Alcoholism | 1 |
| Anasarca | 6 |
| Aneurism of aorta | 5 |
| Angina pectoris | 1 |
| Apoplexy, cerebral | 18 |
| Apoplexy, pulmonary | 1 |
| Asthenia | 2 |
| Asthma | 1 |
| Atelectasis | 1 |
| Bright's disease | 4 |
| Bronchitis, capillary | 17 |
| Bronchitis, chronic | 1 |
| Cancer, uterine | 1 |
| Cholera infantum | 16 |
| Cirrhosis of kidneys | 1 |
| Congestion of brain | 2 |
| Congestion of lungs | 26 |
| Convulsions | 10 |
| Convulsions, infantile | 1 |
| Croup | 3 |
| Cyanosis | 1 |
| Debility, congenital | 29 |
| Debility, senile | 3 |
| Dementia, senile | 1 |
| Dentition | 2 |
| Diarrhea | 12 |
| Diphtheria | 1 |
| Dropsy of pericardium | 4 |
| Dysentery | 2 |
| Embolism | 1 |
| Enteritis | 1 |
| Epilepsy | 2 |
| Fever, congestive | 2 |
| Fever, puerperal | 1 |
| Fever, scarlet | 2 |
| Fever, typhoid | 1 |
| Gastritis | 4 |
| Hemorrhage of bowels | 1 |
| Heart disease | 18 |
| Hip-joint disease | 1 |
| Inanition | 18 |
| Intussusception | 1 |
| Laryngitis | 2 |
| Marasmus | 1 |
| Paralysis | 4 |
| Pertussis | 2 |
| Phthisis pulmonalis | 32 |
| Pneumonia | 22 |
| Rheumatism | 3 |
| Scrofula | 1 |
| Tabes mesenterica | 1 |
| Trismus nascentium | 18 |
| Still-births, known | 17 |
| Still-births, unknown | 42 |

| | |
|---|-----|
| Total suicides | 13 |
| Total homicides | 18 |
| Total infanticides, &c. | 20 |
| Total by accidents and negligence | 69 |
| Total by disease | 312 |
| Total by still births | 59 |

Total of all cases certified by the coroner

491

Whole number of white deaths, 139 = 28.31 per cent.; whole number of colored deaths, 352 = 71.69 per cent.

276 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

OCCUPATION.

| | | | |
|-----------------------|----|-------------------------|-----|
| Baker | 4 | Lather | 1 |
| Barber | 2 | Laundress | 6 |
| Boatman | 1 | Lawyer | 1 |
| Book agent | 1 | Messenger | 1 |
| Brakeman | 1 | Painter | 2 |
| Bricklayer | 1 | Photographer | 1 |
| Butler | 1 | Pilot | 1 |
| Carpenter | 3 | Plasterer | 1 |
| Carriage maker | 1 | Plumber | 1 |
| China decorator | 1 | Policeman | 1 |
| Cigar dealer | 1 | Pressman | 1 |
| Clerk | 9 | Printer | 1 |
| Cook | 2 | Produce dealer | 1 |
| Drill runner | 1 | Restaurant keeper | 1 |
| Druggist | 1 | Servant | 13 |
| Engineer | 2 | Shoemaker | 3 |
| Farmer | 3 | Shopkeeper | 2 |
| Flagman | 1 | Soldier | 7 |
| Gardener | 1 | Stone-cutter | 1 |
| Grocer | 1 | Stone mason | 1 |
| Hostler | 1 | Student | 1 |
| Hod-carrier | 1 | Upholsterer | 1 |
| Housekeeper | 5 | Waiter | 3 |
| Jeweler | 1 | Remaining | 332 |
| Laborer | 61 | | |

Statement showing different ages in cases of death certified by coroner.

| Causes of death. | Total deaths. | White. | | Colored. | | Age. | | | | | | | | | | | | | |
|------------------------------|---------------|--------|---------|----------|---------|----------------|-----------------------------|---------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--|
| | | Male. | Female. | Male. | Female. | Under 1 month. | Between 1 month and 1 year. | 1 to 5 years. | 5 to 10 years. | 10 to 20 years. | 20 to 30 years. | 30 to 40 years. | 40 to 50 years. | 50 to 60 years. | 60 to 70 years. | 70 to 80 years. | 80 to 90 years. | 90 to 100 years. | |
| Zymotic diseases..... | 63 | 6 | 6 | 26 | 25 | 6 | 37 | 11 | 3 | 1 | 1 | 6 | 1 | 2 | 1 | 1 | 1 | ... | |
| Constitutional diseases..... | 35 | 3 | 1 | 13 | 18 | 1 | 4 | 3 | 2 | 7 | 7 | 6 | 5 | 4 | 4 | 1 | 1 | ... | |
| Local diseases..... | 182 | 27 | 18 | 61 | 76 | 24 | 29 | 21 | 1 | 3 | 7 | 27 | 26 | 10 | 18 | 13 | 2 | 1 | |
| Developmental diseases..... | 32 | 3 | 3 | 12 | 14 | 27 | 1 | 1 | 5 | 11 | 16 | 18 | 14 | 11 | 6 | 1 | 2 | ... | |
| Violence..... | 120 | 50 | 10 | 38 | 22 | 27 | 5 | 5 | 11 | 16 | 18 | 14 | 11 | 11 | 6 | 1 | 6 | ... | |
| Still-births..... | 59 | 9 | 3 | 32 | 15 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ... | |
| Total..... | 491 | 98 | 41 | 182 | 170 | 84 | 74 | 37 | 12 | 17 | 31 | 51 | 46 | 27 | 25 | 16 | 11 | 1 | |

Statement showing nativity in cases of death certified by coroner.

| Causes of death. | Nativity. | | | | | | | | |
|-------------------------------|-----------------------|-------------------------------|----------|----------|----------|-----------|--------|---------|---------|
| | District of Columbia. | Other parts of United States. | Ireland. | Germany. | England. | Scotland. | Italy. | Canada. | France. |
| Zymotic diseases | 55 | 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Constitutional diseases | 11 | 23 | 10 | 6 | 4 | 1 | 1 | 1 | 1 |
| Local diseases | 84 | 77 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Developmental diseases | 29 | 2 | 3 | 8 | 1 | 1 | 1 | 1 | 1 |
| Violence | 56 | 49 | 3 | 8 | 1 | 1 | 1 | 1 | 1 |
| Still-births | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total | 235 | 159 | 13 | 15 | 5 | 2 | 1 | 1 | 1 |

Social relation above the age of twenty years.

| Sex and color. | Widow or widower. | Married. | Single. | Total. |
|-----------------------|----------------------|----------|---------|--------|
| White, male | 10 | 35 | 25 | 70 |
| White, female | 10 | 16 | 1 | 27 |
| Colored, male | 7 | 41 | 18 | 66 |
| Colored, female | 13 | 20 | 10 | 43 |

Monthly nativity.

| | |
|-----------------|----|
| July | 50 |
| August | 51 |
| September | 45 |
| October | 41 |
| November | 34 |
| December | 46 |
| January | 33 |
| February | 44 |
| March | 39 |
| April | 32 |
| May | 28 |
| June | 48 |

I certify the foregoing statement is correct.

D. C. PATTERSON,
Coroner.

H.—REPORT OF THE CHIEF ENGINEER OF THE FIRE DEPARTMENT.

WASHINGTON, D. C., *June 30, 1886.*

GENTLEMEN: I have the honor to submit herewith my annual report of the fire department for the fiscal year ending June 30, 1886, comprising a particularized record of the alarms of fire, of the actual fires, and of the losses and insurances that occurred during that period, and lists of the officers and members of each company, respectively; also an itemized list of improvements and alterations to the different engine and truck houses made by Mr. Entwisle, inspector of public buildings of the District of Columbia, and Mr. Clark, architect of the United States Capitol; also recommendations which in my judgment are essential and necessary to still further increase the efficiency of this branch of the District government.

ENGINE AND TRUCK HOUSES.

The engine-houses in use by the department are seven in number, and two truck-houses. They are all in good condition and will only need the usual incidental repairs, except engine-houses Nos. 2 and 4. The former is entirely unsuited for an engine-house; the building is old, location bad, and its interior as well as sanitary arrangements are defective, and it has no rear alley, so that all supplies, forage, and fuel have to be carried through the front entrance, making it most inconvenient. The latter is also badly arranged for an engine-house; but I have to complain more particularly about its location. The different railroads have completely monopolized the street on which the house is

located, with their numerous railroad tracks, fences, &c., and the freight and other cars which are constantly standing upon them completely bank up the surroundings, leaving only a narrow roadway of about 20 feet between the railroad tracks and the curb, and this is of very poorly laid blue rock, causing always a serious delay to the apparatus in getting out to answer all alarms.

I would respectfully recommend that this engine-house be moved from its present location to a site either one square north or one square south, in order to avoid the inconveniences and annoyance to which the railroads have subjected it.

REPAIRS AND ALTERATIONS.

During the year the following repairs and alterations were made in the different engine and truck-houses, by Mr. Entwisle, inspector of public buildings of the District of Columbia, and Mr. Clark, architect of the United States Capitol: No. 1 engine-house, repairs to roof and gutters; No. 2 engine-house, new floors in engine-room and two horse stalls, new vise-bench and repainting the entire building. Engine-house No. 3, repainting and repairing roof and a general painting of the house. No. 4 engine-house, repairing floor in engine and sitting rooms, and new floors in horse stalls. No. 5 engine-house, new pavement in yard and area. No. 6 engine-house, repairs to engine room floor, new fence along alley and back yard. Truck A house, patching and painting roof, fixing stall doors and putting weather strips around wash-board in second story. Truck B house, repairing horse stalls, gas-pipes, windows, roof, and fixing columns on front of building.

NEW ENGINE-HOUSE.

I respectfully renew my recommendations and estimates for a new engine-house in the southeastern section of the city, the formation of a new company and its complete equipment. An engine company in that section of the city, located somewhere near the Wallach School building and navy-yard market, has been needed for a number of years, and is now becoming an urgent necessity, on account of the rapid improvements made, not less than 1,023 buildings having been erected within the last two years on what is familiarly known as Capitol Hill. No. 3 engine company is the only company located east of North Capitol street, and the territory it has to protect against fire is entirely too extended to render quick assistance in case of fire, such as is afforded the central and northwestern sections of the city.

NEW TRUCK-HOUSE.

I also renew my recommendations for a double house and a new truck company, and in doing so respectfully call your attention to the following: That the location of a truck company in the center of the city has become a necessity on account of the number of hotels, theaters, lumber yards, planing-mills, livery stables, and other large and inflammable buildings in that section. Truck A company now answers all alarms in Northeast, Southeast, and Southwest Washington, and that part of the northwestern section south of O street north and Seventh street west, terminating its boundary on a line of Pennsylvania avenue and Twelfth street northwest, while Truck B company covers the whole of the remaining portion of the city and West Washington. Both companies

are located in about the center of their respective districts, and are too far removed from the business portion of the city to be able to render immediate service in case of fire, especially where lives are endangered; and I therefore recommend the purchase of a lot in the vicinity of the present No. 2 engine company and south of Pennsylvania avenue, and the erection of a double house for the accommodation of No. 2 engine company and a new truck company and its equipments.

Officers and employes.

| Title. | Number of employes. | Salary per annum each. |
|--|---------------------|------------------------|
| Chief engineer | 1 | \$1,800 |
| Foreman, acting assistant chief engineer | 2 | 1,200 |
| Fire marshal | 1 | 1,000 |
| Clerk | 1 | 900 |
| Foremen | 7 | 1,000 |
| Privates, acting foremen | 2 | 800 |
| Engineers of steamers | 7 | 1,000 |
| Tillermen | 2 | 840 |
| Hostlers | 9 | 840 |
| Firemen | 7 | 840 |
| Privates | 58 | 800 |
| Watchmen | 3 | 600 |
| Veterinary surgeon | 1 | 400 |
| Total | 101 | |

I take pleasure in again calling your attention to my recommendations regarding the positions of the present officers and employes of the fire department, which I deem advisable to still improve the efficiency of the department: That the position of acting chief engineer be made permanent, and that the number of foremen be increased from seven to nine, giving each engine and truck company their regular foremen, as two of the companies are now in charge of acting foremen only. That the salaries of the foremen and engineers be increased from \$1,000 to \$1,100 and \$1,050, respectively. The pay of these two grades of officers of this department has never been increased since its organization as a full-paid department in 1869, and when the firemen's relief fund was created, \$1 per month was deducted as a contribution without a corresponding increase of salary, as in the case of the privates.

I further recommend the promotion of nine privates to the rank of assistant foremen, with an increase of salary of \$100 per year each. In the absence of the foreman of a company, a private qualified for the position is detailed to act as foreman, and as such assumes all the responsibilities of that position, and I think it but proper that an extra compensation should be allowed for their services.

EXTRA WATCHMEN.

I respectfully ask that proper provision be made for two watchmen for the fire department, in addition to the three already employed, at the same salary now paid them. In asking this I have in mind two privates in the department who have become partly disabled by injuries received and long service while performing their duty in the department; and in appointing them to these positions it will be rewarding them to some extent for the valuable services rendered while endangering their own lives in endeavoring to save property, lives, &c.

RELIEF FUND.

I wish to further recommend that Congress be asked to appropriate a sum to be known as a "reserve relief fund," to be used for pensioning disabled firemen. As the present firemens relief fund now stands its resources are continually largely exhausted by the two pensioners who are paid from it. Ninety-nine employes of the fire department contribute \$1 each per month for the support of this fund, which little more than pays the \$50 per month to Martin Cronin, and \$30 to Mrs. Ellen Alber. It will be seen therefore that the small balance which has been accumulating since the fund was created would be insufficient and inadequate to pension other firemen who are in danger of being killed or maimed for life at any moment. The recent fire on Capitol Hill, attended by the disastrous explosion, wounding seriously two firemen, is a fair example. Suppose, for illustration, that these two firemen had been wounded for life (and it was only a miracle that they were not and others escaped), where would the revenue come from to pension them alike with those now receiving pensions? It is more than true that the firemen are now being taxed to the fullest extent of their means, and it would be a disgrace upon humanity to further impose upon them.

Considering the circumstances and the dangerous duty firemen are called upon to perform, and the inability of the department to assist disabled men who so willingly risk their lives, would it not be a wise and humane procedure for Congress to set aside a sum as a sinking fund, the interest of which would be available to pay certain amounts to disabled men according to disabilities received in line of duty, &c.

This would not be an unprecedented movement regarding members of fire departments, as most all of the large cities of the country have similar arrangements for caring for their disabled men. Therefore I ask that this recommendation receive your most serious and favorable consideration.

APPARATUS.

The apparatus of the department consists of eight steam fire-engines, seven of which are in service and one in reserve.

All the engines are in good condition, except Nos. 1 and 2, which are undergoing repairs and general overhauling.

Eight hose carriages in good condition, seven in service, and one in reserve.

Three hook and ladder trucks, two in service and one in reserve. The first two are fully equipped with all the necessary appliances, while the third is an old truck without any equipments.

One fuel wagon in fair condition, 4 10-gallon chemical fire extinguishers, one wagon for chief engineer, and one for each acting assistant chiefs in fair condition.

NEW FUEL WAGON.

I would respectfully suggest that another fuel wagon be purchased and stationed in the western section of the city.

HOSE.

The hose in the department consists of 11,900 feet of Paragon hose in good condition, 4,300 feet of fair quality, and 2,900 feet of bad and un-

serviceable material. This is distributed among the different companies as follows:

| Engine company. | Feet (good). | Feet (fair). | Feet (bad). |
|-----------------|--------------|--------------|-------------|
| No. 1 | 2,000 | 250 | 900 |
| No. 2 | 2,000 | ..... | 350 |
| No. 3 | 2,700 | ..... | 400 |
| No. 4 | 1,500 | 500 | ..... |
| No. 5 | 2,200 | 100 | 250 |
| No. 6 | 1,000 | 1,700 | 450 |
| No. 7 | 500 | 1,750 | 550 |

During the year 1,600 feet of old and condemned hose were turned over to the property clerk, Mr. F. O. Bécket.

I would respectfully recommend that 6,000 feet of new hose be purchased. The 11,900 feet of good and the 4,300 feet of fair condition hose, as shown in the above table, have become much worn and are now in very bad condition. Consequently the new hose purchased this year, with the old stock, is not a sufficient quantity for the use of the department. As this is a very essential article in the fire department, I would urge the replenishing of the stock as above asked.

HORSES.

The stock belonging to this department consists of forty-four horses. During the year one horse died, nine were turned over to the property clerk, and nine new ones were purchased.

EXPENDITURES.

The books of the auditor of the District of Columbia show the expenditures on account of the fire department for the fiscal year ending June 30, 1886, to have been as follows:

| | |
|--------------------------------|-------------|
| Salaries | \$83,380 24 |
| Repairs to engine-houses | 994 48 |
| Repairs to apparatus | 3,835 73 |
| Fuel | 1,558 92 |
| Forage | 4,802 92 |
| Purchase of horses | 2,480 00 |
| Purchase of hose | 2,124 10 |
| Contingent expenses | 7,206 89 |
| Total | 106,383 28 |

RESIGNATIONS AND DISMISSALS.

During the year four members of the department resigned and one was dismissed.

APPLICATIONS.

During the year fifty-four applications were received for positions in the department. Out of this number only thirty were found qualified by the board of examining surgeons.

FIRE-MARSHAL'S REPORT.

The report of the fire-marshal, William O. Drew, is herewith submitted, and especial attention is called to that part relating to the

storage and sale of inferior and highly inflammable grades of illuminating oils.

The accompanying detailed statement of fires, losses, and insurance, shows that during the year commencing July 1, 1885, and ending June 30, 1886, there were 169 alarms of fire and 61 local alarms, causing a total loss of \$240,480, and covered by an insurance of \$170,386, against a loss of \$240,690, and an insurance of \$139,645 for the corresponding fiscal year last past.

Table A shows the number of fires, losses, and insurance for each month.

Table B shows the different causes of fire from July 1, 1885, to June 30, 1886.

Table C shows the kind of buildings in which fires originated from July 1, 1885, to June 30, 1886.

CONCLUSION.

In conclusion I would state that although my administration of the affairs and workings of the fire department has been of short duration, I feel justified in commending the demeanor and efficiency of the force, which is such as to merit my warmest commendation.

To your honorable body I respectfully tender my thanks for the cordial and unvarying assistance in the execution of the numerous and responsible functions I have been called upon to discharge.

To the major and superintendent and the members of the metropolitan police, and to the superintendent of the fire-alarm telegraph and telephone service and to the operators of his office, I tender my acknowledgments for their kind co-operation.

Very respectfully, your obedient servant,

JOS. PARRIS,
Chief Engineer Fire Department.

To the COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

TABLE A.—Recapitulation.

| Fires for which alarms were given. | | | | Local alarms. | | |
|------------------------------------|--------------|-----------|------------|---------------|-------|------------|
| Month. | No of fires. | Loss. | Insurance. | No of fires. | Loss. | Insurance. |
| 1885. | | | | | | |
| July | 15 | \$101,430 | \$73,080 | 4 | \$25 | \$25 |
| August | 7 | 2,967 | 2,267 | 3 | 50 | 50 |
| September | 12 | 5,835 | 5,810 | 2 | 15 | 15 |
| October | 10 | 2,600 | 1,600 | 6 | 5 | 5 |
| November | 14 | 14,640 | 11,786 | 4 | 30 | 20 |
| December | 21 | 9,305 | 5,675 | | | |
| 1886. | | | | | | |
| January | 15 | 16,095 | 10,640 | 10 | 170 | 170 |
| February | 17 | 2,650 | 2,065 | 6 | 100 | 30 |
| March | 18 | 3,810 | 3,300 | 11 | 1,230 | 1,210 |
| April | 16 | 10,085 | 7,605 | 3 | 730 | 200 |
| May | 8 | 1,800 | 1,775 | 7 | 25 | 10 |
| June | 16 | 68,185 | 43,000 | 5 | 698 | 48 |
| Total | 169 | 237,402 | 168,603 | 61 | 3,098 | 1,783 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 283

TABLE B.—Showing the different causes of fires and alarms from July 1, 1885, to June 30, 1886.

| Cause. | Num-ber. | Cause. | Num-ber. |
|----------------------------------|----------|---------------------------------------|----------|
| Accident | 18 | Hot ashes | 7 |
| Benzine can | 1 | Incendiary | 24 |
| Coal-oil lamp | 10 | Latrobe stove | 4 |
| Chimneys | 13 | Overheated machinery | 6 |
| Child playing with matches | 8 | Overheated stove | 4 |
| Coals from stove | 2 | Overheated fine | 1 |
| Coals from open fire-place | 1 | Sparks from chimney | 15 |
| Carelessness | 6 | Spontaneous combustion | 20 |
| Defective flue | 20 | Smoky stove | 2 |
| Defective hearth | 3 | Sparks from forge | 1 |
| Defective bake-oven | 2 | Sparks from furnace | 1 |
| Electric-light wire | 4 | Stovepipe | 8 |
| Explosion, gasoline stove | 4 | Sparks from locomotive | 1 |
| Explosion, gas-meter | 1 | Throwing match in coal-oil tank | 2 |
| Fire-works | 9 | Tar barrel | 3 |
| False alarms | 9 | Tar kettle | 1 |
| Gas-jet | 8 | Unknown | 10 |
| Grease from frying-pan | 1 | | |
| | | Total | 230 |

TABLE C.—Showing kind of building in which fires originated.

| Building. | Frame. | Brick. | Total. | Building. | Frame. | Brick. | Total. |
|--------------------------------|--------|--------|--------|---|--------|--------|--------|
| Armory | | 2 | 2 | Livery stable | | 1 | 1 |
| Apartment house | | 2 | 2 | Office building | | 1 | 1 |
| Broom factory | | 1 | 1 | Private stables | 5 | 8 | 13 |
| Carpenter shop | 1 | | 1 | Printing office | | 1 | 1 |
| Cigar store and dwelling | 2 | | 2 | Restaurant and dwelling | 2 | | 2 |
| Cooper shop | | 1 | 1 | Restaurant | 1 | 1 | 2 |
| Confectionery store | | 1 | 1 | Steam laundry | | 2 | 2 |
| Church | | 1 | 1 | Ship chandler's store | | 1 | 1 |
| Dwellings | 60 | 66 | 126 | School building | | 2 | 2 |
| Dry goods store | | 2 | 2 | Saw mill | 2 | 2 | 4 |
| Drug store | | 1 | 1 | Smithsonian Institution | | 1 | 1 |
| Dwelling and stable | 1 | | 1 | Smoke house | 1 | | 1 |
| Dredge | 1 | | 1 | Tea store | 1 | | 1 |
| Furnishing store | | 2 | 2 | United States Government building | | 1 | 1 |
| Feed store | 1 | 1 | 2 | Warehouse | 1 | 2 | 3 |
| Flour mill | | 2 | 2 | Wood sheds | 2 | | 2 |
| Grocery stores | 5 | 2 | 7 | | | | |
| Grocery and dwelling | | 1 | 1 | | | | |

FIRE MARSHAL'S OFFICE, Washington, D. C., November 4, 1886.

DEAR SIR: I have the honor to transmit the following report of the transactions of this office for the fiscal year ending June 30, 1886. During the year I visited and inspected the scene of 169 fires for which alarms had been rung, also the scene of 61 the local fires for which no alarm was sounded. A list of the causes for said fires, with the loss and insurance, will be found in this report; also number of stores visited and barrels of illuminating oils inspected, and the number of tenements visited and inspected which were reported in an unsafe condition and in danger from cause of fire; also report on the dangerous low-grade kerosene oil which is being placed in this market and offered for sale.

Cause of fires.

| Cause. | Num-ber. | Cause. | Num-ber. |
|------------------------------|----------|-------------------------------------|----------|
| Fire-works | 9 | Sparks from furnace | 1 |
| Incendary | 24 | Children playing with matches | 8 |
| Sparks from chimneys | 15 | Grease from frying-pan | 1 |
| Coal-oil lamps | 10 | Stove pipes | 8 |
| Overheated journals | 6 | Overheated stoves | 4 |
| False alarms | 9 | Explosion of gasoline stoves | 4 |
| Benzine can | 1 | Coals from stoves | 2 |
| Defective flues | 20 | Coals from open fire-place | 1 |
| Spontaneous combustion | 20 | Defective hearths | 3 |
| Accident | 18 | Explosion of gas-meter | 1 |
| Smoky stoves | 13 | Overheated flue | 1 |
| Chimneys | 13 | Tar kettles | 1 |
| Unknown | 10 | Carelessness | 6 |
| Sparks from forge | 1 | Sparks from locomotive | 1 |
| Coal-oil tanks | 2 | Defective bake ovens | 2 |
| Latrobe stoves | 4 | Hot ashes | 7 |
| Electric-light wires | 4 | | |
| Gas-jets | 8 | Total | 230 |
| Tar barrels | 3 | | |

Total loss by fire, \$240,480. Insurance, \$170,386.

I visited all the laundries established in this city, and examined them in regard to their safety from fire, and, with two exceptions, found them to be in a good and safe condition. Alterations which I recommended made in the two above mentioned were done and, like the others, made safe.

I also visited and inspected nineteen different tenements which were reported to me as being in an unsafe condition and in danger from cause of fire by defective flues, stove-pipes, furnaces, smoke-stacks, combustible material, &c., all of which have been made safe.

KEROSENE OIL.

During the year I visited the stores of this city where illuminating oils are kept on sale, and inspected 1,030 barrels of the same, of which I found 296 barrels of a very low grade and which would not stand the proof test. In this connection, I desire to again call attention to the great quantity of low grade and combustible oil which is being sent to this market and put on sale in the different establishments at retail.

From my experience in testing this product during the past year, I can with safety say that more than 28 per cent. is below the proof test. As I have said in my former report, to say that this oil is dangerous is putting it mild—it is murderous; and some law should be enacted to prevent the vile stuff from being shipped to the District. We have had many fires and many deaths from the use of this oil by the explosion of lamps, which would not occur if the oil had been pure or separated from the gasoline and naphtha contained therein. It is therefore really necessary, for the protection of the public at large from death and destruction, that a law strong enough in all its bearings should be enacted to prevent the sale of these low-grade volatile oils.

Your obedient servant,

WM. O. DREW,
Fire Marshal.

JOSEPH PARRIS, Esq.,
Chief Engineer, District of Columbia Fire Department.

REPORT OF FIRES.

Detailed statement of fires, losses, and insurance for the year ending June 30, 1886.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 285

| No. of fire. | Date. | Hour. | No. of box. | Location. | Style of building. | How occupied. | Owner or occupant. | Cause. | Damage. | Insurance. |
|--------------|--------------|------------|-------------|--|--------------------|------------------|---------------------------------|-------------------------|---------|------------|
| 1 | 1885, July 1 | a. m. 8.50 | 314 | 2143 I street NW. | Frame | Dwelling | P. H. Roach | Fireworks | \$15 | \$15 |
| 2 | July 4 | 8.50 | 41 | 209 Four-and-a-half street NW. | do | do | J. W. Cooper | do | 5 | 5 |
| 3 | July 4 | 11.59 | 125 | 407 Seventh street NW | Brick | Finishing store | H. Reitzenstein | do | 40 | 40 |
| 4 | July 4 | 4.33 | 145 | 1322 F street NW | do | Swiss Laundry | Ira Godfrey | do | 200 | 200 |
| 5 | July 5 | 11.35 | 32 | 1734 G street NW | do | Livery stable | J. W. Clark | Incendiary | 200 | 200 |
| 6 | July 5 | 9.07 | 236 | 1418 Twelfth street NW | Frame | Dwelling | Amelia Butler | Coal-oil lamp | 71,705 | 71,705 |
| 7 | July 6 | 12.30 | 143 | 1319 New York avenue NW | Brick | Stable | Dr. A. G. Y. Garnett | Heated Journal | 100,000 | 100,000 |
| 8 | July 16 | 7.58 | 132 | Corner Tenth and D streets NW. | do | Printing office | Post Publishing Company | do | 40 | 40 |
| 9 | July 17 | 1.52 | 632 | Corner Fourteenth and Sanson streets NW. | Brick | Grocery | John F. Green | Benzine | 15 | 15 |
| 10 | July 18 | 10.38 | 243 | 233 Adams Express Alley | do | Dwellings | Daniel Parker | Defective flue | 1,000 | 1,000 |
| 11 | July 23 | 2.49 | 17 | 1106 Water street NW | do | Plumbing | George W. Stuart | Spontaneous combustion. | 75 | 75 |
| 12 | July 24 | 12.31 | 416 | 1704 Seventh street NW | do | Dwelling | John P. Emier | Incendiary | 40 | 40 |
| 13 | July 24 | 12.30 | 416 | 303 Four-and-a-half street NW | do | do | Simon Stern | do | 5 | 5 |
| 14 | July 27 | 9.08 | 41 | Q between Sixth and Seventh streets NW. | Brick | High school | District government | Accident. | 20 | 20 |
| 15 | July 31 | 12.21 | 212 | Alley between Fourth and-a-half and Sixth H and I streets. | Frame | Dwelling | do | Fireworks | 5 | 5 |
| 16 | July 4 | 9.15 | Local. | 512 Eleventh street NW | do | do | John Boyle | Chimney | 20 | 20 |
| 17 | July 7 | 1.50 | do | Corner Tenth and D streets NW. | Brick | Printing office | Post Publishing Company | Roll of paper | 150 | 150 |
| 18 | July 22 | 6.00 | do | 1218 E street NW | Frame | Dwelling | Manuel Towell | Smoky stove. | 2,577 | 2,577 |
| 19 | July 29 | 3.24 | 12 | 68 C street NW | Brick | Stable | Charles Thompson | Incendiary | 1,877 | 1,877 |
| 20 | Aug. 1 | 10.43 | 142 | In rear 1326 G street NW | do | Dwelling | Jacoby Fenschel | Chimney | 25 | 25 |
| 21 | Aug. 2 | 7.40 | 56 | 742 Sixth street NE | do | Dwelling | Betsey Hays | Accident | 200 | 200 |
| 22 | Aug. 3 | 12.02 | 131 | Corner Tenth and-a-half and-a-half streets NW. | do | Dry goods store. | Seaton Perry | Chimney | 15 | 15 |
| 23 | Aug. 5 | 1.51 | 62 | Corner North Capitol and H streets NW. | do | Stable | George W. Smith | Unknown. | 35 | 35 |
| 24 | Aug. 14 | 8.00 | 52 | 201 Maryland avenue NE. | Frame | Dwelling | Timothy McCarty | Chimney | 200 | 200 |
| 25 | Aug. 17 | 7.18 | 14 | 625 Fourth street NW | do | do | E. L. Mahre | Spontaneous combustion. | 15 | 15 |
| 26 | Aug. 20 | 7.18 | Local. | D between Fourth and-a-half and Sixth streets NW. | Brick | Oil house | Baltimore and Potomac Railroad. | Accident | 15 | 15 |
| 27 | Aug. 13 | do | do | 414 Eleventh street NW | do | Machine shop | G. H. Ashenback | Chimney | 35 | 35 |
| 28 | Aug. 22 | do | do | do | do | False alarm. | do | do | do | do |

Detailed statement of fires, losses, and insurance for the year ending June 30, 1886—Continued.

| No. of fire. | Date. | Hour. | No. of box. | Location. | Style of building. | How occupied. | Owner or occupant. | Cause. | Damage. | Insurance. |
|--------------|---------------|-------------|-------------|---|--------------------|------------------|----------------------|-------------------------|---------|------------|
| 10 | 1885, Aug. 26 | a. m. p. m. | Local. | 535 D street SW | Frame | Dwelling | Mrs. Williams | Chimney | | |
| 1 | Sept. 1 | 4. 38 | 212 | 706 O street NW | Brick | Armory building | F. P. Nash | Carelessness | \$30 | \$30 |
| 2 | Sept. 12 | 3. 42 | 146 | 825 Fifteenth street NW | do | Stable | J. F. Armistead | do | 1,180 | 1,180 |
| 3 | Sept. 14 | 12. 43 | 23 | 1033 Fourth street NW | Frame | Grocery | J. S. Nash | Oil tank | 25 | 25 |
| 4 | Sept. 15 | 11. 38 | 243 | Alley between Fourteenth and Fifteenth streets NW | do | Kitchen | Marshall Cole | Accident | 25 | |
| 5 | Sept. 16 | 11. 57 | 314 | 714 Twenty-first street NW | Brick | Dwelling | J. D. Ramsay | Spontaneous combustion. | | |
| 6 | Sept. 17 | 11. 06 | 214 | Eighty and Boundary streets NW | Frame | Grocery | Richard Skinner | Lamp explosion | 400 | 400 |
| 7 | Sept. 19 | 8. 56 | 53 | 13 W street SE | do | Dwelling | Masiah Shaw | Chimney | | |
| 8 | Sept. 23 | 12. 01 | 152 | 917 B street NW | Brick | Commission house | John A. Davis & Son | Chimney | 150 | 150 |
| 9 | Sept. 23 | 8. 21 | 152 | Ninth street and Pennsylvania avenue NW | Marble | Storage room | George M. Oyster | Unknown | | |
| 10 | Sept. 24 | 5. 04 | 12 | 117 D street NW | Brick | Dwelling | Frank Gadgdon | Latrobe stove. | 25 | 25 |
| 11 | Sept. 26 | 2. 11 | 153 | 1358 to 1364 D street NW | do | Stables | Union Transfer Co. | Incendiary | 4,000 | 4,000 |
| 12 | Sept. 30 | 3. 24 | 142 | Alley rear Thirteenth street NW | do | do | | Tar barrel | | |
| 13 | Sept. 22 | | Local | 216 Sixth street NW | Brick | Restaurant | M. G. McCormick | Electric wire | 15 | 15 |
| 14 | Sept. 28 | | 314 | 415 Thirteenth street NW | Frame | Fancy store | William Noot | Gas jet | 1,500 | 1,000 |
| 1 | Oct. 1 | 8. 10 | 21 | Alley between Twenty-first and H and I NW | do | Mill and stable | J. Maury Dove | Furnace | 300 | 300 |
| 2 | Oct. 5 | 10. 38 | 631 | 53 K street NW | Brick | Dwelling | J. F. Oysterman | Unknown | 100 | 100 |
| 3 | Oct. 8 | 1. 45 | 631 | 418 B street NW | do | do | John M. Walker | Defective flue | 25 | 25 |
| 4 | Oct. 12 | 10. 45 | 631 | 713 A street NE | do | do | S. G. Hayden | Spontaneous combustion | | |
| 5 | Oct. 12 | 6. 26 | 127 | 928 Seventh street NW | do | Dry-goods store | W. W. Bardette & Co. | Electric wire | | |
| 6 | Oct. 16 | | 19 | 425 New Jersey avenue NW | do | Dwelling | R. J. Miller | Smoke-stack | | |
| 7 | Oct. 16 | 10. 12 | 132 | 814 Ninth street NW | do | Stable | R. J. Beall | Incendiary | 500 | 125 |
| 8 | Oct. 20 | | 253 | 1502 Caroline street NW | do | Dwelling | A. T. Paul | Parlor matches | 75 | 25 |
| 9 | Oct. 26 | 7. 07 | 212 | 732 Freeman's alley | do | do | Richard Mahoney | Lamp explosion | | |
| 10 | Oct. 26 | 9. 00 | 521 | 351 Eleventh street SE | Frame | do | W. Curtis Costin | do | 100 | 50 |
| 11 | Oct. 9 | 6. 10 | Local. | Four-and-a-half street and Virginia avenue NW | do | do | Mrs. Belenher | Gas jet | | |
| 12 | Oct. 9 | 8. 58 | do | 426 Ninth street NW | Brick | Confectionery | T. Jones | Store | | |
| 13 | Oct. 12 | 12. 05 | do | 1691 Eleventh street NW | Frame | Dwelling | Perry Riley | Stovepipe | 5 | 5 |
| 14 | Oct. 16 | 6. 40 | do | 503 Third street SW | do | do | Sarah Butler | Chimney | | |
| 15 | Oct. 27 | 7. 40 | do | 1608 Eleventh street NW | do | do | Sarah Harris | Parlor matches | | |
| 16 | Oct. 31 | 7. 15 | do | 617 Maryland avenue NW | do | Stable | William Dyer | Carelessness | | |
| 1 | Nov. 1 | 12. 47 | 131 | 517 Ninth street NW | Brick | Steam laundry | John W. Morgan | Furnace | 265 | 265 |

| | | | | | | | | | | |
|----|---------|-------|-------|--|-----------------|------------------------|---------------------------|-------------------------|-------|-------|
| 2 | Nov. 2 | 8.55 | 516 | Alley between A and B and Third and Fourth streets SE. | Frame | Dwelling | D. P. Harrison. | Chimney | 100 | 100 |
| 3 | Nov. 3 | 2.50 | 423 | In rear 416-418 Tenth street SW. | do | Wood-sheds | J. V. N. Huyck. | Incendiary | 100 | 100 |
| 4 | Nov. 5 | 9.04 | 43 | 1004 Four-and-a-half street SW | do | Dwelling | Henry Leonard | Parlor matches | 100 | 100 |
| 5 | Nov. 5 | 9.10 | 417 | 243 Fourteenth street SW | do | Stable | James Altman | do | 500 | 500 |
| 6 | Nov. 12 | 6.33 | 37 | 1907 Pennsylvania avenue NW. | Brick | Real estate | Wescott & Wilcox. | Spontaneous combustion. | 500 | 300 |
| 7 | Nov. 15 | 1.20 | 612 | 414 and 416 Third street NE. | Frame | Dwelling | Thomas E. Waggoner. | Defective flue | 1,365 | 1,365 |
| 8 | Nov. 15 | 10.20 | 147 | 821 Fifteenth street NW | Brick | Hotel | John Chamberlain | Furnace | 10 | 10 |
| 9 | Nov. 16 | 4.57 | 52 | 56 C street NW | Frame | Restaurant | George W. Ashton | Coal-oil lamp | 100 | 100 |
| 10 | Nov. 21 | 7.12 | 154 | 1101 Fourth street SE. | Brick | Dwelling | J. J. Carr | Parlor matches | 2,700 | 2,700 |
| 11 | Nov. 26 | 1.45 | 151 | 1320 E street NW | do | do | J. F. Manning & Co. | Spontaneous combustion. | 3,000 | 3,000 |
| 12 | Nov. 27 | 6.17 | 148 | 1116 Thirteenth street NW | do | Stores | A. G. Riddle. | Defective flue | 6,000 | 5,832 |
| 13 | Nov. 28 | 2.01 | 131 | 434 to 444 Ninth street NW | do | Smithsonian Institute. | R. O. Edmonston | Furnace | 10 | 15 |
| 14 | Nov. 29 | 8.55 | 421 | Tenth and B streets SW | Stone | Dwelling | United States Government. | Matches | 10 | 15 |
| 15 | Nov. 2 | 8.51 | Local | 1108 C street NW | Brick | do | Mollie Draper | Lamp explosion | 5 | 5 |
| 16 | Nov. 8 | 12.40 | do | 3 Dupont Circle | Stone | do | Charles L. Mitchell | Spontaneous combustion. | 1,300 | 1,100 |
| 17 | Nov. 9 | 8.15 | do | Louisiana avenue and Eleventh street NW | Brick | Restaurant | Harvey & Holden | Smoke-stack | 5 | 5 |
| 18 | Nov. 17 | 12.25 | do | 1347 E street NW | do | Sporting goods. | O'Meara & Co | Chimney | 200 | 200 |
| 1 | Dec. 1 | 4.40 | 45 | 1418 Four-and-a-half street SW | Frame | Dwelling | Mary Stewart | Coal-oil lamp | 1,750 | 1,250 |
| 2 | Dec. 2 | 5.10 | 241 | 1343 Fourteenth street SW | do | Carpenter's shop | William C. Morrison | Spontaneous combustion. | 10 | 10 |
| 3 | Dec. 2 | 4.47 | 243 | 1621 Third street NW | Brick | Dwelling | C. B. McCall | Hot ashes | 200 | 200 |
| 4 | Dec. 5 | 11.15 | 231 | 1617 R street NW | Frame | do | John Simpson | Furnace | 1,700 | 1,500 |
| 5 | Dec. 7 | 2.40 | 25 | 925, 927, and 929 Fifth street NW. | do | do | Horace Jackson | Defective flue | 5 | 5 |
| 6 | Dec. 7 | 2.40 | do | Corner Potomac and Grace streets. | Brick | Flour mill | Austin Herr | Overheated journal | 20 | 20 |
| 7 | Dec. 8 | 2.22 | 149 | 1134 Seventh street NW | Brick | Dwelling | Henry Burgling | From candle | 200 | 200 |
| 8 | Dec. 13 | 5.30 | 212 | 1343 Seventh street NW | Brick | do | William Keenan | Defective flue | 1,750 | 1,250 |
| 9 | Dec. 13 | 8.01 | 12 | 1926 Pennsylvania avenue NW. | Brick | do | Henry C. Stevens | Spontaneous combustion. | 10 | 10 |
| 10 | Dec. 13 | 11.43 | 37 | 931 Rhode Island avenue | do | Dwelling | Clark & Co. | Hot ashes | 200 | 200 |
| 11 | Dec. 15 | 2.16 | 219 | 2036 G street NW | Frame | Drug store | S. B. Heaton | Furnace | 200 | 25 |
| 12 | Dec. 19 | 11.47 | 251 | 1618 Seventeenth street NW | Brick | Dwelling | W. P. Wood. | From candle | 1,700 | 1,500 |
| 13 | Dec. 19 | 6.47 | 41 | Four-and-a-half street and Maryland avenue SW. | Brick and frame | Planing mill | W. D. Webster | Defective flue | 5 | 5 |
| 14 | Dec. 21 | 6.08 | 431 | 213 W. Thirteenth-and-a-half st. NW | Frame | Dwelling | A. Norton | Incendiary | 1,700 | 1,500 |
| 15 | Dec. 22 | 9.01 | 413 | 915, 917, 919, and 921 G street NW | do | do | G. W. Springman | Feed store | 1,700 | 1,500 |
| 16 | Dec. 23 | 7.50 | 413 | 634 H street SW | Brick | Feed store | do | Feed store | 1,700 | 1,500 |
| 17 | Dec. 24 | 7.50 | 413 | 634 H street SW | Brick | Feed store | do | Feed store | 1,700 | 1,500 |

* False alarm.

Detailed statement of fires, losses, and insurance for the year ending June 30, 1886—Continued.

| No. of fire. | Date. | Hour. | No. of Box. | Location. | Style of building. | How occupied. | Owner or occupant. | Cause. | Damage. | Insurance. |
|--------------|------------------|--------|-------------|---|--------------------|--------------------------|---------------------------------|-------------------------|---------|------------|
| 18 | 1885. Dec. 25 | a. m. | 149 | 1517 L street NW | Brick | Dwelling | Captain Howe | Chimney | \$100 | \$100 |
| 19 | Dec. 25 | p. m. | 148 | 1215 M street NW | Brick | Wood sheds | O. A. Kimball and R. B. Kinsall | Hotashes | 20 | 25 |
| 20 | Dec. 29 | 9. 06 | 218 | 1015 U street NW | Brick | Dwelling | Alice Bradley | Stove | 100 | 100 |
| 21 | Dec. 30 | 9. 45 | 321 | 2226 I street NW | Frame | do | H. K. Hogan | do | 35 | 35 |
| 1 | 1886. Jan. 2 | 7. 47 | 321 | 2423 F street NW | Brick | do | George Moore | Spontaneous combustion. | 300 | 300 |
| 2 | Jan. 3 | 5. 38 | 218 | 2321 Eighth street NW | Frame | do | Dennis Fitzgerald | Defective flue | 5 | 5 |
| 3 | Jan. 8 | 7. 50 | 423 | 1005 Maryland avenue SW | Brick | do | John McNeel | do | 50 | 50 |
| 4 | Jan. 8 | 1. 13 | 137 | 927 Eleventh street NW | Frame | do | John W. Lippcomb | Furnace | 4, 085 | 4, 085 |
| 5 | Jan. 12 | 4. 05 | 147 | 1337 I street NW | Brick | do | John W. Lippcomb | Storepipe | 50 | 50 |
| 6 | Jan. 12 | 9. 10 | 147 | 1403 I street NW | do | do | William Estelle | Incendiary | 2, 000 | 2, 000 |
| 7 | Jan. 13 | 8. 45 | 623 | 300 M street SE | Frame | do | Stephen Talty | do | 4, 000 | 4, 000 |
| 8 | Jan. 16 | 4. 45 | 425 | 25 to 43 E street SW | do | Dwelling and stable. | Freedman's Bank | Accident | 100 | 100 |
| 9 | Jan. 16 | 1. 04 | 132 | 717 E street NW | Brick | Dwelling | Gussie Kant | Gasoline stove | 50 | 50 |
| 10 | Jan. 17 | 12. 16 | 332 | 717 Ninth street NW | do | do | Albert Esch | Spontaneous combustion. | 10 | 10 |
| 11 | Jan. 18 | 4. 48 | 625 | 106 New York avenue NE | do | do | Mr. Hamilton | Coal-oil lamp | 1, 400 | 1, 400 |
| 12 | Jan. 23 | 6. 56 | 39 | Alley between Nineteenth and Twentieth streets NW | do | Broom factory | George T. Fritch | Defective flue | 500 | 500 |
| 13 | Jan. 23 | 12. 36 | 73 | 1501 Thirty-third street NW | do | Dwelling | W. W. Gould | Matches | 3, 010 | 3, 010 |
| 14 | Jan. 27 | 12. 35 | 145 | 1422 Pennsylvania avenue NW | do | do | U. S. Government | do | 5 | 5 |
| 15 | Jan. 31 | 9. 46 | 134 | 937 F street NW | do | Surgeon-General's | Minnie James | Defective flue | 50 | 50 |
| 16 | Jan. 4 | Local | Local | 1335 Ohio avenue NW | do | Dwelling | New York Herald | Defective hearth | 50 | 50 |
| 17 | Jan. 7 | do | do | 701 Fifth street NW | do | Offices | Senator Jackson | do | 20 | 20 |
| 18 | Jan. 10 | do | do | 1016 V street NW | do | Dwelling | Samuel Shipley | Latrobe stove | 20 | 20 |
| 19 | Jan. 11 | do | do | 3284 N street NW | do | do | D. Dreyfuss | Explosive gasoline | 20 | 20 |
| 20 | Jan. 14 | do | do | 3292 M street NW | do | Clothing store | Hon. Robt. R. Hill | Defective flue | 10 | 10 |
| 21 | Jan. 19 | do | do | 1507 K street NW | do | Dwelling | Samuel Jackson | Hot ashes | 15 | 15 |
| 22 | Jan. 23 | do | do | Rear 1524 L street NW | Frame | Wood-shed | Thomas W. Smith | Storepipe | 150 | 150 |
| 23 | Jan. 23 | do | do | North Capitol and D streets NE | do | Lumber warehouse | do | do | 30 | 30 |
| 24 | Jan. 27 | do | do | 217 Delaware avenue NE | Brick | Dwelling | B. Beale | Steam pipe | 50 | 50 |
| 25 | Jan. 29 | do | do | 12 Lafayette Square | do | do | Washington McLean | Gas-jet | 150 | 150 |
| 26 | Jan. 29 | 7. 51 | 212 | 619 M street NW | do | do | Dr. W. H. Taylor | Coal-oil lamp | 30 | 30 |
| 27 | Feb. 2 | 10. 53 | 34 | 1110 Connecticut avenue NW | Frame | do | Sarah Butler | Storepipe | 150 | 150 |
| 28 | Feb. 3 | 7. 49 | do | 1726 H street NW | Brick | do | W. H. Wormley | Coal-oil lamp | 10 | 10 |
| 29 | Feb. 10 | 1. 24 | 214 | 1814 Seventh street NW | Frame | Dwelling and restaurant. | S. L. Perry | Stove | 150 | 150 |

| 5 | Feb. 11 | 4. 17 | 315 | Alley between L and M and Twenty-second and Twen- ty-third streets NW. | do | Stable | A. M. Booth | Incendiary | 75 | 800 |
|-----|---------|--------|-------|--|-------|---------------------------|--------------------------------|------------------------------|-------|-------|
| 6 | Feb. 12 | 8. 01 | 416 | 945 F street SW | Brick | Grocery | R. A. Golden & Co | Spontaneous com- bustion. | 800 | 150 |
| 7 | Feb. 15 | 8. 19 | 243 | 1326 Corcoran street NW | do | Dwelling | Mrs. General Heint- zelman. | Roof | 250 | 30 |
| 8 | Feb. 15 | 3. 56 | | Potomac and Gray streets NW. | do | Flour mill | Austin Herr | Defective flue | 30 | 15 |
| 9 | Feb. 16 | 11. 02 | 39 | Alley between L and M and Eighteenth and Nineteenth streets NW. | Frame | Dwelling | Moses Elliott. | Chimney | 30 | 15 |
| 10 | Feb. 18 | 12. 55 | 151 | 1309 C street NW | do | do | Americus Murray | Lamp | 150 | 150 |
| 11 | Feb. 19 | 7. 25 | 237 | 1211 O street NW | Brick | Stable | C. M. Alexander | Candle | 150 | 150 |
| 12 | Feb. 19 | 7. 54 | 218 | Rear 2122 Eighth street NW | Frame | Dwelling | Richard H. Harris. | Chimney | 300 | 300 |
| 13 | Feb. 20 | 3. 34 | 249 | 1509 S street NW | Brick | do | E. B. Cottrell | Incendiary | 225 | 15 |
| 14 | Feb. 22 | 11. 13 | 61 | Alley between First and Sec- ond and B and C streets SE. | Frame | Grocery | Margaret Readly | Chimney | 15 | 15 |
| 15 | Feb. 23 | 8. 55 | 218 | 814 Grant avenue NW | do | Cigar store | J. H. Allen | Coal-oil lamp | 225 | 15 |
| 16 | Feb. 24 | 6. 16 | 514 | 1011 Eighth street SE | do | Dwelling | W. A. Hasner | Incendiary | 15 | 25 |
| 17 | Feb. 27 | 1. 57 | 521 | 220 Thirteenth street SE | do | do | Samuel Black | Chimney | 75 | 20 |
| 18 | Feb. 2 | | Local | 1716 Rhode Island avenue NW. | Brick | do | Col. L. Lee | do | 20 | 5 |
| 19 | Feb. 7 | | do | 1108 Sixteenth street NW | do | do | Mrs. E. Hunt | Spontaneous com- bustion. | 20 | 5 |
| 20 | Feb. 14 | | do | 3007 M street NW | do | do | Annie Cleveland | Incendiary | 5 | 10 |
| 21 | Feb. 20 | | do | 3100 N street NW | do | do | Lucey Stevenson | Chimney | 125 | 1,500 |
| 22 | Feb. 23 | | do | C street between First and Fifteenth and H streets NW | Brick | Columbia Univer- sity. | William Thompson | Tar kettle | 5 | 5 |
| 23 | Feb. 27 | | do | 1734 Thirty-third street NW | Frame | Dwelling | John C. Miller | Defective flue | 10 | 10 |
| 1 | Mar. 1 | 6. 02 | 713 | 3305 W street NW | Brick | Cooper's warehouse. | James Koons | Stove-pipe | 125 | 1,500 |
| 2 | Mar. 2 | 10. 39 | 732 | 627 Pennsylvania avenue NW | do | American house. | Z. D. Ghuman | Chimney | 1,500 | 5 |
| 3 | Mar. 10 | 2. 09 | 134 | 314 North Carolina avenue NW. | Frame | Dwelling | William Thompson | do | 5 | 5 |
| 4 | Mar. 10 | 1. 03 | 517 | | | | | | | |
| *5 | Mar. 11 | 11. 17 | 134 | 1609 Eleventh street NW | Frame | Dwelling | J. S. Reeds | Hot ashes | 350 | 350 |
| 6 | Mar. 14 | 3. 49 | 236 | 436 Seventh street NW | do | do | C. S. Price | Defective flue | 400 | 400 |
| 7 | Mar. 14 | 7. 35 | 413 | 335 Jackson Hall alley NW | do | do | Annie Lucas | Stove | 10 | 25 |
| 8 | Mar. 16 | 9. 14 | 17 | Delaware avenue and K streets NE. | do | do | J. W. Miller | Incendiary | 25 | 300 |
| 9 | Mar. 17 | 3. 00 | 62 | | do | do | Jennie Jarvis | Lamp | 300 | 20 |
| 10 | Mar. 18 | 12. 52 | 153 | 1225 C street NW | do | do | Henry Madison | Matches | 20 | 500 |
| *11 | Mar. 21 | 1. 44 | 127 | 631 Essex court | do | do | G. L. Sherif | Cas. jet. black | 500 | 400 |
| *12 | Mar. 22 | 5. 57 | 148 | | do | do | J. T. Jennings | Oil tank | 400 | 15 |
| 13 | Mar. 22 | 11. 53 | 127 | 911 Seventh street NW | Brick | Restaurant | J. H. Shreeves | Defective flue | 15 | 15 |
| 14 | Mar. 23 | 6. 37 | 45 | Sixth street wharf NW | Frame | Sawmill | | | | |
| 15 | Mar. 24 | 11. 45 | 524 | 1300 E street SE | do | Grocery | | | | |
| 16 | Mar. 24 | 2. 00 | 127 | 640 I street NW | Brick | Dwelling | | | | |

* False alarm.

Detailed statement of fires, losses, and insurance for the year ending June 30, 1886—Continued.

| No. of fire. | Date. | Hour. | No. of box. | Location. | Style of building. | How occupied. | Owner or occupant. | Cause. | Damage. | Insurance. |
|--------------|------------------|-----------------|-------------|--|--------------------|----------------------|------------------------------|-------------------------|---------|------------|
| 17 | 1886, Mar. 28 | a. m. 11. 30 | 714 | 3021 P street NW | Brick | Dwelling | H. Vinson | Defective flue | \$150 | ..... |
| 18 | Mar. 29 | 11. 16 | 41 | Rear 342 B street SW | Frame | Warehouse for straw. | Nichols Bros. | Incendiary | 1, 200 | \$1, 200 |
| 19 | Mar. 1 | ..... | Local | Bladenburg road | do | Stable and barn | A. G. Mount | Sparks from locomotive. | ..... | ..... |
| 20 | Mar. 1 | ..... | do | 857 Seventh street NW | Brick | Bakery | J. B. Winstall | Defective flue | ..... | ..... |
| 21 | Mar. 6 | ..... | do | 457 I street NW | Frame | Wood-shed | William Fuman | Hot ashes | 5 | ..... |
| 22 | Mar. 7 | ..... | do | 2347 O street NW | Brick | Dwelling | Mary Brown | Chimney | ..... | ..... |
| 23 | Mar. 7 | ..... | do | 2816 Olive avenue NW | Frame | do | Mary Chisley | do | ..... | ..... |
| 24 | Mar. 10 | ..... | do | Rear 1124 Twenty-third st. NW | do | do | H. O'Neal | do | 15 | ..... |
| 25 | Mar. 15 | ..... | do | 1027 Seventeenth street NW | do | do | S. Bowen | Stovepipe | ..... | ..... |
| 26 | Mar. 15 | ..... | do | 1330 D street NW | do | do | Mary Glascoe | Chimney | ..... | ..... |
| 27 | Mar. 18 | ..... | do | 630 C street NW | Brick | do | R. Sparks | Gas-pipe | ..... | ..... |
| 28 | Mar. 20 | ..... | do | 912 N street NW | do | do | Charles Hopkins | Laird's stove | 10 | 10 |
| 29 | Mar. 23 | ..... | do | 912 N street NW | do | do | E. C. Haskell | Chimney | ..... | ..... |
| 1 | Apr. 4 | 7. 23 | 714 | 3063 P street NW | Frame | do | Louisa Stokes | do | ..... | ..... |
| 2 | Apr. 4 | 12. 25 | 25 | 421 M street NW | Brick | do | H. A. Jones | Matches | 50 | ..... |
| 3 | Apr. 10 | 1. 12 | 43 | 309, 311, 313 L street SW | Frame | do | John Douglas | Cooking stove | 300 | ..... |
| 4 | Apr. 11 | 8. 13 | 72 | 1413 Monroe street NW | do | do | William Jones | Defective flue | 5 | ..... |
| 5 | Apr. 12 | 7. 27 | 713 | Eighth and Thirty-second streets NW | do | Smoke-house | H. Poe | Accident | ..... | ..... |
| 6 | Apr. 13 | 11. 52 | 125 | 516 Sixth street NW | do | Dwelling | E. G. Hasbrough | Matches | 15 | ..... |
| 7 | Apr. 13 | 10. 58 | 13 | 305 Missouri avenue NW | Brick | do | Sarah Brown | Incendiary | 3, 500 | 2, 500 |
| 8 | Apr. 19 | 1. 33 | 622 | D and Thirteenth streets NE | Frame | Brick-kilns | Childs & Sons | Heating flues | 4, 000 | 2, 900 |
| 9 | Apr. 19 | 11. 40 | 321 | Easy wharf, foot Twenty-sixth street. | Brick and iron | Oil-tank | L. A. Littlefields | Overheated tank | ..... | ..... |
| 10 | Apr. 21 | 1. 56 | ..... | Fourteenth and Boundary streets NE. | Frame | Brick-kilns | Washington Brick Machine Co. | Heat-flue | ..... | ..... |
| 11 | Apr. 22 | 2. 43 | 62 | 106 H street NW | do | Grocery | John P. Quill | Accident | 10 | ..... |
| 12 | Apr. 22 | 7. 30 | 148 | 12 Massachusetts avenue NW | Brick | Dwelling | Senor Romero | Gas-jet | 5 | ..... |
| 13 | Apr. 23 | ..... | 731 | Thirtieth and K streets NW | do | Stable | Charles E. Walker | Matches | 1, 000 | 1, 000 |
| 14 | Apr. 23 | 3. 18 | 245 | Fourteenth street NW | do | Feed store | Wheatley Brothers | Spontaneous combustion. | 800 | 800 |
| 15 | Apr. 27 | 11. 15 | 236 | 1101 O street NW | do | School-house | G. W. Springman | Incendiary | 400 | 400 |
| 16 | Apr. 28 | 1. 24 | 517 | E between Third and Fourth streets SE. | Brick | Dwelling | St. Peter's church | Accident | ..... | ..... |
| 17 | Apr. 3 | ..... | Local | Rear 3312 M street NW | Frame | Dwelling | William Butler | Coal-oil lamp | 10 | ..... |
| 18 | Apr. 12 | ..... | do | Bowen road (county) | do | do | do | Defective hearth | 500 | ..... |
| 19 | Apr. 17 | ..... | do | 3120 M street NW | Brick | Dry goods | Penj. Miller & Son | Gas-jet | 220 | 200 |
| 1 | May 1 | 10. 14 | 127 | 920 Eighth street NW | do | Dwelling | John Hurley | Spontaneous combustion | 25 | 25 |
| 2 | May 2 | ..... | Local | United States Capitol | Marble | Government | United States | Defective flue | ..... | ..... |

| | | | | | | | | | | |
|----|---------|-------|--------|---|-----------|----------------------------------|-------------------|------------------------------|--------|--------|
| 2 | May 3 | 12.45 | 514 | 1011 Eighth street SE | Frame | Government and ci- gar store. | W. A. Harner | Incendary | 700 | 700 |
| 3 | May 2 | | Local. | Washington Monument lot | Dry grass | Park | United States | Dry grass | 150 | 150 |
| 3 | May 4 | 8.38 | 73 | Rear 1535 Thirty-second street NW | Frame | Stable | James H. Payne | | | |
| 4 | May 2 | | Local. | 1800 Tenth street NW | do | do | Elphonz Youngs | Spontaneous com- bustion. | | |
| 4 | May 12 | 2.57 | 132 | Rear 929 G street NW | Brick | Dwelling | P. H. Heiskell | do | | |
| 5 | May 3 | | Local. | 304 F street NW | Frame | Dwelling | Mary Johnson | Chimney | 75 | 50 |
| 5 | May 20 | 9.02 | 212 | 1230 Seventh street NW | Brick | Furnishing store | Moses Colman | Coal-oil lamp | 450 | 450 |
| 6 | May 19 | | Local. | 1314 D street NW | do | Dwelling | Annie Murphy | Chimney | | |
| 6 | May 24 | 11.37 | 45 | 1339 Four-and-a-half street SW | do | do | William Barks | do | | |
| 7 | May 28 | 5.15 | 512 | 630 A street SE | do | do | William Bastowe | Spontaneous com- bustion. | 250 | 250 |
| 8 | May 29 | | 212 | 1237 Seventh street NW | do | Confectionery | Chris Casper | Bake-oven | 150 | 150 |
| 8 | May 14 | 11.25 | Local. | 916 Seventh street NW | do | Picture-frame fac- tory | W. H. Veerdoof | Defective fue | 10 | 10 |
| 10 | May 25 | | do | 439 Prather's alley | do | Dwelling | Henry Smith | Stovepipe | 15 | |
| 1 | June 1 | 1.39 | 327 | 1000 Twenty-fifth street NW | do | Grocery | A. H. Crowell | Incendary | | |
| 2 | June 2 | 6.23 | 217 | 1820 Ninth street NW | do | Dwelling | John A. Linsiek | Spontaneous com- bustion. | 500 | 500 |
| 3 | June 2 | 11.54 | 27 | 1011 New Jersey avenue NW | do | do | William Numbers | Oil-stove | | |
| 4 | June 4 | 11.54 | 62 | 611 street NE | do | do | John McCormick | do | 150 | 50 |
| 5 | June 5 | 6.48 | 249 | 1814 Fifteenth street NW | do | do | John R. Croggin | Unknown | 75 | |
| 6 | June 5 | 8.39 | 321 | 911 I street NW | Frame | do | Annie Gibson | Lighted lamp | 10 | |
| 7 | June 6 | 9.04 | 521 | 1063 South Carolina avenue SE | Brick | do | W. H. Tufts | Unknown | | |
| 8 | June 7 | 12.53 | 132 | Rear 912 I street NW | do | Stable | H. D. Cochran | Spontaneous com- bustion. | 200 | 200 |
| 9 | June 15 | 11.39 | 56 | 318 G street SE | Frame | Dwelling | Moses Smallwood | Chimney | | |
| 10 | June 19 | 8.38 | 312 | Eighteenth street wharf | do | Dwelling boat | Penson & McNe | Coal-oil lamp | 65,000 | 40,000 |
| 11 | June 23 | 7.36 | 124 | Sixth and C streets NW | Brick | Salvage Army hall | Salvation Army | Defective fue | | |
| 12 | June 26 | 5.35 | 62 | Jackson's alley | Frame | Dwelling | Lacy Williams | Chimney | | |
| 13 | June 26 | 9.17 | | Rear 400 New Jersey avenue NW | do | do | William Grindy | Coal-oil lamp | | |
| 14 | June 28 | 1.25 | 12 | 218 D street NW | Brick | do | James A. Huff | Incendary | 250 | 250 |
| 15 | June 28 | 9.44 | 153 | Thirteenth and B streets NW | do | Planing-mill | E. E. Johnson | Smoke-stack | | |
| 16 | June 30 | 10.43 | 135 | 515 Eleventh street NW | do | Dwelling | Mary McBride | Incendary | 2,000 | 2,000 |
| 17 | June 15 | | Local. | 438 Massachusetts avenue NW | Frame | do | Geo. W. McElfresh | Fluid stove | 48 | 48 |
| 18 | June 26 | | do | Bennig's station, county | do | do | Thomas Jackson | Defective fue | 650 | |
| 19 | June 4 | | do | Alley between Eighteenth and Nineteenth and L and M streets | do | do | Martha Jones | Chimney | | |
| 20 | June 16 | | do | 428 H street NW | do | do | J. C. Lang | do | | |
| 21 | June 27 | | do | 909 Fifth street NW | do | do | James Lewis | do | | |

I.—REPORT OF THE ATTORNEY, DISTRICT OF COLUMBIA.

OFFICE OF THE ATTORNEY OF THE
DISTRICT OF COLUMBIA,
Washington, November 1, 1886.

GENTLEMEN: I respectfully ask to submit a brief summary of the business of this office for the year ending June 30, 1886.

It has been a year of increased labor and activity. We have not yet escaped from the perplexing questions entailed by the late Board of Public Works, while the rapid growth of the District brings many new ones.

The District had an unusual number of cases disposed of in the United States Supreme Court at its last term, which may be mentioned.

Gibbons (Cardinal) v. The District was a suit in equity to avoid the payment of upwards of \$5,000 of taxes assessed upon property belonging to St. Patrick's Roman Catholic parish in this city.

It involved the construction of the various acts of Congress providing for the exemption of church property from taxation. The decision below was in accordance with the oft-expressed view of this office, and was affirmed by the Supreme Court.

The case establishes that the laws now in force "exempt nothing from taxation beyond church buildings and grounds actually occupied for such buildings, and the lands or grounds appurtenant to any such buildings so far as reasonably needed and actually used for its convenient enjoyment, for its legitimate purpose. Even parts of the exempted buildings and lands, if used to secure a rent or income, or for any business purpose, are taxable. But land which is neither actually occupied for a church building, nor reasonably needed and actually used for the convenient enjoyment of the building as a church, is not exempt from taxation whether it is used for any other purpose or not."

Johnston v. The District was an action at law for damages to the property of the plaintiff occasioned by the overflow of a sewer.

The contention of the District was that the overflow complained of was incident to the plan of the work and not to its construction, and that the duties of the municipal authorities in determining upon the plans for a public work, as distinguished from its execution, are of a *quasi* judicial nature, involving the exercise of deliberate judgment and large discretion, and that the exercise of such judgment and discretion in the selection and adoption of such plan is not subject to revision by a court and jury in a private action for damages. This view was sustained by the court below, and affirmed by the Supreme Court on writ of error. No cause more important to the District has been determined of recent years.

Campbell v. The District was an action at law for \$12,000, growing out of a contract dating back to the days of the old corporation of Washington and continued under the Board of Public Works. The case turned upon facts peculiar to itself, and the judgment below in favor of the District was affirmed.

McElligott v. The District was an action at law for damages sustained by the plaintiff, a laborer in the employ of the District, by the falling upon him of a bank at which he was at work. The judgment below was in favor of the plaintiff for \$3,000. The District sued out a

writ of error, contending, first, that the injury sustained by the plaintiff was incidental to the character of his employment, and that in accepting such employment he assumed the risk of the injury sustained; second, that the accident was due to the plaintiff's own negligence; and, third, if not so due, it was due to the negligence of the plaintiff's fellow-servant.

The Supreme Court of the United States reversed the judgment of the court below and awarded the District a new trial.

The *Louisiana State Lottery Company v. Morgan* was an action at law against the late Commissioner for damages on account of certain action taken by him in pursuance of his official duties.

This cause being in the Supreme Court on writ of error sued out by the plaintiff was dismissed by that court.

There still remain on the docket of the Supreme Court many cases to which the District is a party, and of them some involve questions of the most far-reaching importance to the District and its interests.

In the Court of Claims the only case with which this office is concerned is that of *Carroll v. The District of Columbia*

This is a claim for \$90,000, alleged damages to Duddington. The case is in the court by virtue of a special act of Congress involving a deliberate departure from existing law, which if extended would result in financial consequences scarcely to be estimated in advance. The cause was argued and submitted to the court at its last term and remanded for further testimony—the evidence submitted not enabling the court to adjudicate the question of damages. Such further testimony has since been taken on both sides and the case will be heard at the current term.

The cases of *Strong v. The District of Columbia* are in rather an anomalous condition. In my last report I mentioned the decision of the supreme court of the District in general term reversing the award of the referees in Strong's favor. The hearing upon which this result was reached belongs to the work of the year covered by this report. After a history familiar to all, the cases were finally, on the 28th day of May, 1883, by stipulation and agreement referred to William P. Clarke, Halbert E. Paine, and Edward Clark. Those gentlemen, after a hearing and consideration of the cases which consumed eighteen months, filed their findings and conclusions, awarding to Strong \$234,798.48. To these findings, conclusions and award the District excepted, and the exceptions were ordered by the court to be heard in the general term in the first instance. The argument was had in September of last year and resulted in a judgment of the court vacating and annulling the whole award, and remanding the causes to the court below for further appropriate action. On this judgment, though I am clear that it is not a final judgment, Strong has sued out a writ of error in the Supreme Court, on which the causes are now pending in that court. I have no doubt that this writ of error will ultimately be dismissed for want of jurisdiction in the court.

An effort had been made to induce me to move for such dismissal in advance of reaching the causes in regular order, which motion I have declined to make. Strong then moved the court ostensibly to advance the cause for hearing, but in effect the motion was skillfully contrived to induce the court to dismiss the writ of error without an apparent motion in that behalf by Strong himself. The motion was overruled.

In its opinion setting aside the award our court, after specifically declining to pass upon the question of what, if anything, appeared from the record to be due to Strong, used this language:

"We are the more induced to this course from the fact that, after all the investigations which have taken place, the skilled professional advisers of the parties have before them all the elements to enable them, upon a careful review of the case, to approximate at least a result which will accomplish substantial justice, and terminate, by private convention between themselves, a protracted and vexatious litigation."

Effort has been made on the part of Strong to construe this expression of the court into a recognition by it that there is something due him on account of these causes, and therefore to contend that, in effect, the language of the court is a direct recommendation of an arbitration of the causes. It seems evident to me that the language of the court is capable of neither construction. For myself I cannot too strongly insist on leaving these causes, as all other District causes, to the regular course of litigation in the courts of law. While occupying this place my responsibility for this view will be cheerfully borne.

I recall five references of important District cases to auditors, arbitrators, or referees, all resulting in heavy adverse awards, and each costing great labor to set aside, which result was accomplished in every case. I firmly believe that any further reference of Strong's cases will involve but a repetition of this experience, accumulating only costs and labor to no practical end.

Some other causes disposed of in the supreme court of the District deserve mention.

The case of *Woodbury v. The District* was an action at law for damages sustained by the plaintiff in falling through an opening in the sidewalk in front of the Riggs House. On a former trial the jury were unable to agree, but at the trial at the October term last a verdict and judgment thereon was rendered against the District in the sum of \$15,000. I have, on what we deem ample grounds, removed the cause to the Supreme Court, and have further taken proper steps to secure from the owners of the Riggs House the indemnity recoverable over by the District in this class of cases.

The case of *The District v. Waggaman* was a test case to enforce the license law of the late District legislature so far as it concerns real-estate brokers. It was sharply litigated, the result sustaining our view of the law. The decision is of far-reaching importance, affecting as it does the whole license system of the District, and sustaining the validity of the existing acts, which are the work of the late Assembly.

The same laws were also involved in another series of cases against produce dealers, the opinion of the court, which was rendered in the case of *The District of Columbia v. Oyster*—made a test case for the purpose—further defining, in support of our view, the meaning of the term "produce," heretofore a vexed question.

The same laws were also upheld in still a different series of cases involving commercial agents.

The several license cases thus disposed of remove from the region of contention questions which have been more or less annoying for the past few years.

No less important was the decision of the criminal court in the case of *The District v. Maisack*, another test case. In that case the right of the Commissioners to revoke the license of a wholesale dealer violating

the condition of his bond, in suffering liquor to be drank on his premises, was maintained by the court.

The Sunday barber-shop question has also been disposed of, the court sustaining the validity of the ordinance of the old corporation prohibiting the keeping open of barber shops on Sunday.

A most important case was that of *Koones v. The District and John F. Cook*, collector. Koones delivered his check to the collector in payment of taxes. That officer delayed for several days to present it to the bank for payment, during which time the bank failed and the check was dishonored. Koones thereupon entered suit to cancel the taxes covered by the check. The court, in accordance with our view, held that the reception of the check by the collector was not a payment of the taxes, and that for the purpose of presenting it to the bank for payment the collector was the agent, not of the District, but of the taxpayer, and that the loss occasioned by the delay in presentation of the check should therefore fall upon the latter.

The case of *Hewitt v. The District of Columbia and The Western Union Telegraph Company* brought into question the power of the Commissioners to grant permits for the erection of telegraph poles in the streets. The power of the Commissioners in this respect, while denied by the court in special term, was on appeal maintained by the court in general term. The complainant has appealed and the case has entered upon the long repose of the Supreme Court.

The case of *Eckloff v. The District* was one of gravity. It brought to the test the important question whether the Commissioners have power to remove members of the police force, in their discretion, without trial. I believe the bar was quite unanimous that the power did not exist. Such was my opinion until a thorough re-examination of the question, and so the court below, Mr. Justice Cox, held. On appeal by me, the general term reversed the court below. The case has gone to the Supreme Court on error, and so confident are counsel, in the face of the judgment of our court, that several new cases, growing out of dismissals without trial, having recently been commenced. Of the ultimate result, however, I have no doubt.

The Washington Market Company v. The District of Columbia was a suit in equity to enjoin the collection of certain special assessments claimed by the District upon the property of the complainant, amounting, with penalties and costs, to between \$10,000 and \$15,000. The suit was instituted in 1878, and after various proceedings came on for hearing by the court in special term, in October, 1885, when the demurrer of the District was sustained and the bill dismissed. On appeal by the complainant this result was sustained by the court in general term, and the complainant has appealed to the Supreme Court of the United States, where the cause is now depending.

Many other cases of more or less importance, but turning upon their own peculiar circumstances, and not involving any principles of general application, have also been tried, both in special and general term, and in the main with satisfactory results. For much of the time two circuit courts, each with a jury, were in operation at the same time, thus nearly duplicating the duties of this office.

Of work out of the ordinary, by request of the Commissioners, I took part in the prosecution of Langster, in the criminal court, for the murder of Officer Fowler. He was convicted and executed. I also defended Officer Ellis, on indictment for shooting with intent to kill, who was acquitted.

We have also successfully defended several police officers for malicious arrests and false imprisonment.

Thirty civil District cases have been disposed of in the supreme court of the District, a large increase over last year.

Twenty-nine new cases (civil) during the same period have been added. No account is taken herein of cases before justices of the peace.

It will be remembered that the supreme court of the District, sitting as a criminal court, has appellate jurisdiction of the District cases arising in the police court. Usually the upper court has been so busy with what were deemed more important cases, that occasionally many months have elapsed without my being able to secure the trial of a single appealed case. Notoriously has this been true of liquor-license cases. Our experience is that unless a trial in the upper court can speedily be had, an appeal leads to a dismissal without trial or an acquittal, because in these cases our witnesses are most uncertain and are not always to be found when needed. I am able, however, to state that during the year under consideration better results were attained by arrangement with the United States attorney. Of fifty-seven cases which were appealed, forty-three have been disposed of by trial or dismissal, the trials in much the greater number of cases having resulted in conviction, in affirmation of the result below. But few of such cases now remain for disposition, and effort will be made to keep pace with those hereafter appealed.

The report of Mr. Padgett, special assistant attorney, showing his labors and their result in the police court, is appended hereto. I invite the special attention of the Commissioners to his report. It furnishes some means of judging the efficiency of the police force, and the increase and habits of the vicious, not to be lost sight of.

In conclusion, I must be permitted again to speak of the services of Mr. Forrest, the law clerk. The more than usual success of this office for the year under consideration is in a measure due to his minute knowledge of everything connected with it for many years. His work, in itself indispensable, can make no showing in a report. With the increase of the business of the office has been a steady increase of exaction upon him. While this is true of all of us, it is emphasized in his case, as in that of Mr. Manogue, upon whom, as being in effect assistant clerk as well as messenger, I am more and more compelled to depend.

Below I repeat my estimates heretofore submitted, and I earnestly urge consideration of the cases of Mr. Padgett, Mr. Forrest, and Mr. Manogue.

ESTIMATES.

| | |
|----------------------------------|---------|
| Attorney | \$4,000 |
| Assistant attorney | 2,000 |
| Special assistant attorney | 1,400 |
| Clerk | 1,400 |
| Messenger | 300 |
| Rent of office | 300 |
| Contingent expenses | 900 |

Respectfully,

A. G. RIDDLE,
Attorney, District of Columbia.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 297

OFFICE OF THE ATTORNEY OF THE DISTRICT OF COLUMBIA

Washington, November 1, 1886.

SIR: I have the honor to submit herewith a full report of the cases tried in the police court from July 1, 1885, to June 30, 1886, inclusive.

| | | | |
|----------------------------|-------|------------------------------|----------|
| Number of cases tried..... | 8,523 | Nol. pros..... | 153 |
| Convictions..... | 7,733 | Amount of fines imposed..... | \$45,390 |
| Dismissals..... | 637 | | |

The cases were distributed among the following different violations of law:

| | | | |
|--------------------------------------|-------|-------------------------------------|-------|
| Bar open after hours..... | 35 | Selling liquor on Sunday..... | 51 |
| Bar open on Sunday..... | 254 | Selling on Sunday..... | 5 |
| Barber shop open on Sunday..... | 9 | Selling unsound food..... | 3 |
| Bathing in river..... | 32 | Setting off fire-crackers..... | 11 |
| Building fire in street..... | 5 | Throwing stones..... | 117 |
| Butchering in city..... | 1 | Trespass on parks..... | 106 |
| Concealed weapons..... | 167 | Tying horse to tree..... | 1 |
| Contempt of court..... | 5 | Unlicensed apothecary..... | 5 |
| Cow-yard..... | 4 | Unlicensed auctioneer..... | 2 |
| Cruelty to animals..... | 218 | Unlicensed ball..... | 3 |
| Destroying private property..... | 66 | Unlicensed bar..... | 86 |
| Destroying public property..... | 3 | Unlicensed cattle dealer..... | 19 |
| Disorderly conduct..... | 3,002 | Unlicensed commercial agent..... | 22 |
| Disorderly in church..... | 25 | Unlicensed commission merchant..... | 1 |
| Disorderly in county..... | 367 | Unlicensed eating house..... | 14 |
| Disorderly in Georgetown..... | 238 | Unlicensed entertainment..... | 7 |
| Disorderly in market..... | 1 | Unlicensed horse racing..... | 1 |
| Driving over pavement..... | 42 | Unlicensed hotel..... | 2 |
| Driving through funeral..... | 1 | Unlicensed junk dealer..... | 2 |
| Enticing prostitution..... | 4 | Unlicensed liquor dealer..... | 19 |
| Excavation without permit..... | 9 | Unlicensed livery stable..... | 3 |
| Excavation without light..... | 2 | Unlicensed pawnbroker..... | 5 |
| Fast driving..... | 58 | Unlicensed peddler..... | 7 |
| Fast driving over bridge..... | 3 | Unlicensed pool table..... | 3 |
| Firing pistol in street..... | 22 | Unlicensed produce dealer..... | 62 |
| Flying kite..... | 1 | Unlicensed real-estate agent..... | 5 |
| Gift enterprise..... | 1 | Unlicensed skating rink..... | 1 |
| Indecent exposure..... | 162 | Unlicensed theater..... | 1 |
| Injuring street lamp..... | 4 | Unlicensed vehicle..... | 1 |
| Injuring tree..... | 16 | Unlawful measure..... | 1 |
| Interfering with food inspector..... | 1 | Unlawful scales..... | 1 |
| Interfering with poundmaster..... | 2 | Unlawful use of street washer..... | 1 |
| Nuisance..... | 58 | Unloading freight..... | 1 |
| Obstructing pavement..... | 11 | Vagrancy..... | 1,456 |
| Obstructing street..... | 45 | Violating building regulations..... | 101 |
| Placing rubbish in street..... | 7 | Violating cart law..... | 18 |
| Playing ball in street..... | 48 | Violating hack law..... | 64 |
| Profanity..... | 1,156 | Violating livery-stable law..... | 4 |
| Refusing to assist officer..... | 3 | Violating market regulations..... | 6 |
| Refusing to pay hack hire..... | 13 | Violating pawnbroker law..... | 1 |
| Selling liquor to soldiers..... | 2 | Violating snow law..... | 32 |
| Selling liquor to minors..... | 1 | Wasting Potomac water..... | 267 |

The records show that there were two hundred and thirty more cases tried than during the preceding year.

Very respectfully,

JAS. E. PADGETT,

Special Assistant Attorney, District of Columbia.

A. G. RIDDLE, Esq.,
Attorney, District of Columbia.

K.—REPORT OF MAJOR AND SUPERINTENDENT OF POLICE.

HEADQUARTERS OF METROPOLITAN POLICE,
Washington, D. C., September 1, 1886.

SIRS: Having but recently assumed control of the Police Department, I have not been able to closely scrutinize the work accomplished by its members during the past fiscal year, and shall not endeavor to comment upon it, but will give place in this report to the statistics for that period as shown by the records in the office of the property clerk. The Police Department will be taken up as it was found, with its properties and its capacities, its methods and practices, and its rules and regulations for the conduct of public business and police discipline, and I shall make such suggestions and recommendations for your information and approval as, I am convinced, will result in its improvement in these several respects if adopted and pursued.

The police force is charged with executing the laws, not with administering justice; and for this reason it is, in the initiative, of far more vital importance that the Superintendent should apply himself to perfecting its organization, to the end that such enforcement of laws may be efficient and faithful, than that he should devote time and space to the originating of new or the modification of defective laws. It is, therefore, my desire to impress upon your honorable Board the importance which attaches to the estimates I have made for the support of the department for the fiscal year 1888. While the allowance of the items embraced in these estimates might not affect or establish a perfect police organization in detail for the District of Columbia, yet if the Commissioners and Congress will but secure to us what is asked for, it would enable the establishment of a constant and more thorough patrol, together with a uniform and systematic police communication throughout every section of the District, and until that is attained such a strict and rigid enforcement of the laws as is desirable need not be expected.

In making this schedule of technical changes and estimates it has been so arranged that there may be obtained from it a Superintendent's auxiliary or staff of nearer proper proportions to the territory, population, and force that is to be supervised than the present. Upon these officers the Superintendent must directly depend for the enforcement of his methods of discipline, the want or non-enforcement of which engenders the disaffection and discord that so often destroy the effectiveness of large bodies of men. This auxiliary, with the increased force that provision is made for, and an extended patrol system, will come nearer meeting the demand for an improved police service.

MAJOR AND SUPERINTENDENT.

While there are certain rules laid down by the Commissioners, under authority of law, prescribing the work to be done by this officer, these seem to have operated as a detriment heretofore and have been a source of public complaint. I do not understand the general supervision of the force invoked of the Superintendent to mean that it shall be entirely exercised through the higher subordinates. The Superintendent must give his whole time, therefore, to the duties of his office, and make it manifest by his personal presence at one point and another that he is inspecting the charge committed to his hands. The Superintendent of Police for the District of Columbia, besides being held accountable for

effective service on the part of the force, is the chief of a bureau of information. Being at the capital of the country, it naturally suggests itself to citizens of the several States, and in very many instances to those of foreign countries, that not only may information be had from him on any subject, but that, if they have a claim to prosecute before the Departments, a bill to collect from an individual, or a patent to obtain upon an invention, the Superintendent is such an agent. He must deal, in the course of a year, with an army of people who labor under various hallucinations and aberrations, and find means for their treatment or removal. In this city Senators and Representatives, Cabinet officers, and foreign ministers, and even the President, are being sought after constantly by "cranks," especially at times when there exists any great foreign or national political excitement.

While the salary of this officer for years back has not been commensurate with the amount of labor performed, nor equal to that of the other heads of the departments of the District Government, still at this time an increase of pay for him is of the least importance when so many absolutely necessary increases are demanded for the public welfare.

CAPTAIN AND INSPECTOR.

This officer ranks next to the superintendent, and during the temporary absence of the latter has control of the department. Not only is he required to see that the orders of the major are carried out, but he is charged with estimating for all supplies for the several police precincts, with passing upon the uniforms and equipments of the force, with making all details, and with exercising a general vigilance over all subordinates and stations.

Since the creation of this office, the labors that attach to it have more than doubled. The improvements in the District have more than kept pace with the increase to the police force. There should be, if such were feasible at this time, two captains instead of "one captain and inspector," each to receive a salary of \$2,000 a year. The title of this officer should be made to read "captain," as in the act authorizing the organization of a Metropolitan Police Force (U. S. Statutes rel. D. C., sec. 340).

INSPECTORS.

Two inspectors are provided for in the table of estimates. While but a technical change and an increased appropriation of \$180 is all that is required to provide these two officers, the necessity for such action may be readily explained. To-day the force has what is termed in the act of Congress "one night inspector," whose duties have been to make an inspection of the force on duty at night-time and to report all infractions of the rules. It is proposed that the lieutenants and sergeants shall be trained in their duties up to that point where an inspector will not be constantly required to watch over them. His services may be better and more profitably engaged in the performance of special duty, directly under the Superintendent, as an inspector—such as the investigation of breaches of conduct on the part of the men, of cases requiring absolute secrecy and diplomacy, of complaints against members of the department, and many other matters now requiring the Superintendent's special and personal investigation, and which want of time prevents his making, at all times, in a thoroughly satisfactory manner. Thus one inspector is had in lieu of a "lieutenant." The detective office is the public business bureau of this department, where

every man, woman, and child comes who is in search of information, where all complaints of whatever nature or kind are filed, not only by the public direct, but all crimes and losses reported in the various police precincts, which are immediately telephoned to the lieutenant in charge of the detectives, or rather of the policemen doing special service. The latter receive as a compensation \$1,320 a year, \$1,080 of which sum is their salary as privates, and \$240 is additional reward for doing special work. The lieutenant in charge of this service receives the same pay, \$1,320 a year; that is, he receives his pay as lieutenant without the compensation for the additional service rendered and extra responsibility assumed. This lieutenant should be made an inspector, and receive at least \$1,500 a year.

The officer selected for this charge must not only be familiar with police duty in all its details, but he must possess a knowledge of the shiftless and criminal classes and their haunts. He must also be a gentleman and a good judge of human nature, quick to comprehend and determine, honest and courageous. An officer with these qualifications is worthy of such a salary as is estimated for. The fact is, the same importance attaches to this officer's duties in the District of Columbia as does to those of the inspector in a city like New York.

THE CLERKS.

That the police records shall be well preserved and properly kept is a matter of first importance, and the multiplicity of matters which today concern the police results in an accumulation of data each day of the year, which in any Government Department would require a considerable number of clerks to dispose of. A prompt response to all of the Superintendent's correspondence, the issuing of general orders, the taking of proceedings in trials that may come before the police trial committee, the making of all requisitions, the rendering of the payrolls in duplicate, the preparation of the quarterly reports of the department, the disbursing of pay to the force, the accounting for of all department property and supplies, and the registering and disposing, according to law, of all lost, stolen, and abandoned property, with many incidental duties, are incumbent upon the property clerk and one assistant, who is required to be a stenographer. A second clerk is provided for, but his services have been required elsewhere, and two privates from the force have been detailed from street duty almost continuously that the records and work of the department might not become confused and neglected. In the past three years the work to be cared for in the property clerk's office has increased 50 per cent., with no corresponding allowance for assistance to perform it. The two privates who are "helping out" receive an aggregate pay of \$2,160 per annum. An estimate is made for one additional clerk at \$900, who, upon being provided, would enable the Superintendent to add two men's police service to the District.

POLICE SURGEONS.

More pay is asked by the police surgeons, of which there are four. Before them appear for examination all applicants for position on the force and those who are about to be pensioned. Besides, each one of these surgeons has a district, to the policemen of which he is required to render medical assistance when called upon to do so, and no member of the force may absent himself from duty without having a certificate

from a surgeon showing him to be incapacitated from duty or without the Superintendent's permit. The same professional work is exacted of these gentlemen by the Fire Department, and they receive for all the pitiable sum of \$480 a year. The calls of the department very frequently interfere with the private practice of the surgeons, who are selected from among the first in the profession.

Six hundred dollars would be only a fair return for the labors performed by them.

DETECTION OF CRIME.

Last year and the year before there was appropriated for the special service in the "prevention and detection of crime" \$1,920.

This is the only means at the disposition of the department for the employment of special or detective service. Six privates from the force, selected with a view to their peculiar fitness for the work to be done, are continuously engaged as detectives, and under the law abolishing the old detective force of the District, each receives in addition to his pay as a private policeman the sum of \$240 a year, which exhausts the amount appropriated. I have estimated for the next year for an increase in the allowance for this purpose. The force of six men is wholly inadequate to do what is required. When a burglary is committed or felony of any kind perpetrated, and the criminal eludes arrest, a hue and cry rends the atmosphere, "Where are the detectives?"

With crowded hotels, well-patronized boarding-houses, numbering hundreds of inmates, all employing an army of servants, many of whom turn out to be "crooked" in the course of a year; with a jockey club meeting in both the spring and fall, which attracts innumerable strangers of questionable character; with the horde of hard cases that must be looked after preceding and during the inauguration period, and with almost constant calls for assistance every hour during the day, can much better be expected?

If Congress would grant \$5,000 yearly for this branch of the service it would not be an extravagant amount.

One-half of the appropriation made for extra police purposes at the Capitol every four years would enable the department to have a creditable detective corps, and far more good be accomplished. The most of the money appropriated for policemen to perform a few days' duty about the time a President is being inaugurated is wasted. The character of the men sworn in for this purpose is usually so bad, owing to the short time allowed for the investigation of their habits and worth, that it keeps the regular police force engaged in preventing drunkenness and disorder among these irregulars. Hence it were far better that a definite amount be appropriated every year for the maintenance and support of the department, that it may be enabled to occupy a laudable position rather than one to be ridiculed.

LIEUTENANTS.

The entire District of Columbia is divided into eight precincts or districts, each one of which is in charge of a lieutenant. These officers are held accountable for the acts of the sergeants and privates under them, and are expected to preserve order and prevent crime within the territory comprised in their respective precincts. Not only is this required of the lieutenants, but they transact a large amount of the public business which the government of the District demands shall be vouched for as to its correctness in detail. They must see to it that

parties excavating and building, giving entertainments, peddling, huckstering, keeping saloons or public resorts, &c., have necessary permits to operate or conduct business; that all complaints of the public are thoroughly investigated and disposed of so as to be properly adjusted, even in cases where the law has to be applied through the courts; that in all cases pending in the police and criminal courts the needed witnesses are provided; that all damaged lamps, streets, pavements, sewers, hydrants, pumps, and water mains are promptly reported; that nuisances are abated, and disorderly houses regulated or abolished, besides serving notices of various kinds and all orders of the District government requiring strict enforcement. This is asked of them in addition to keeping up the police routine and seeing that subordinates comply with the rules and regulations governing the department. These men in every way stand on an equal footing with, and are held to account for, the same work as are captains in the police of Chicago and Saint Louis, who have a retinue of officers under them, and who are compensated at \$1,800 and \$2,750, while our lieutenants receive but \$1,320 per year.

The ninth one of the lieutenants at this time has charge of the detectives at police headquarters, which place it is suggested, in the foregoing review, shall be raised to the rank of an inspector, at \$1,500 a year.

SERGEANTS.

While there have been several additions of privates to the force in the past six years, there has been no corresponding granting of sergeants, who correspond to roundsmen in many other cities. They supervise the privates on the beats, and are expected to keep the lieutenants of their several precincts informed as to all infractions of the rules and regulations on the part of the men under them. They are the immediate assistants of the lieutenants, and with a sufficient number of them, doing their full duty, the patrolmen are certain to be vigilant and under-way. These officers are looked to that the discipline of the force is kept up. But with us the number of patrolmen is out of proportion to the number of sergeants, which accounts in a great measure for the number of complaints and depredations that have been committed in the past, apparently through neglect of the police. So far out of proportion are they, that for several years past the department has been compelled to invoke the aid of patrolmen, and assign them to sergeants' duties, without, however, being able to allow them the additional compensation of sergeants for the increased responsibility. Within another twelve months the extending Government and private improvements will make it necessary to lay off bounds for a new police precinct, and the department may be compelled to place this new precinct in charge of a sergeant, with the usual sergeants' support that exists in other precincts. It is desirable that the officer in charge of the detective force shall have a sergeant at headquarters, whose duty it will be to take charge of this important service at night in lieu of one of the precinct lieutenants, who must now leave his post for this purpose, thereby having imposed upon him the burdens of two posts. During the daytime one of the detectives is retained at headquarters to answer any sudden calls or requirements, thus weakening this branch still more. A sergeant could readily respond, if necessary, to such cases of emergency. The time has now come when it is essential that patrolmen, acting as sergeants, should receive sergeants' pay as an equivalent for services rendered and in order to insure good discipline.

PRIVATES.

Of these there are two classes; those of the first numbering ninety-five men, who receive a salary of \$900 a year, and those of the second class, numbering one hundred and forty men, who are compensated at the rate of \$1,080 annually, a force of two hundred and thirty-five all told.

Of the entire number there are detailed during the twenty-four hours—

| | |
|--|---|
| As watchmen at the District government buildings..... | 3 |
| As bailiffs at the police court..... | 2 |
| As collector at the police court to render account of fines in District cases..... | 1 |
| At the health office..... | 1 |
| With poundmaster..... | 1 |
| As clerks at police headquarters..... | 2 |
| As hack inspector..... | 1 |
| At the White House..... | 7 |
| At the Baltimore and Ohio depot..... | 1 |
| At the Baltimore and Potomac depot..... | 2 |
| At the city post-office..... | 1 |
| With the chain-gang..... | 3 |
| As sanitary officer..... | 1 |
| At the steamboat wharves..... | 1 |
| With the Humane Society..... | 1 |
| At 15th street and Pennsylvania avenue railroad junction..... | 1 |
| With patrol wagons (no drivers provided)..... | 3 |
| At the detective office..... | 1 |
| As inspector of pawnshops..... | 1 |
| As detectives..... | 6 |

Total 40

Of the remainder one hundred and ninety-five, nineteen are mounted men, performing duty in the District without the boundaries of Washington, which leaves a force of one hundred and seventy-six men to guard the city; and it must be remembered that only one-half of these are on duty at any one time, the other half resting or "on reserve."

The following tables of comparison will readily present the inferiority of the police force at the capital of the United States in point of numbers and its superiority in the number of arrests made:

| Locality. | Chief. | Assistants. | Captains. | Lieutenants. | Detectives. | Sergeants. | Roundsmen. | Patrolmen. | Total. | Area. | Arrests made. |
|-----------------------|--------|-------------|-----------|--------------|-------------|------------|------------|------------|--------|-------|---------------|
| District of Columbia. | 1 | ..... | 1 | 10 | 6* | 20 | ..... | 235 | 273 | 60 | 22,388 |
| Saint Louis.. | 1 | ..... | 6 | ..... | 11 | 45 | ..... | 468 | 531 | 62½ | 18,851 |
| Chicago..... | 1 | 1 | 5 | 27 | 30* | 63 | ..... | 650 | 777 | 85 | 40,908 |
| Cleveland..... | 1 | 1 | 4 | 14 | 7 | 10 | ..... | 169 | 206 | 26½ | 6,882 |
| New York.... | 1 | 3 | 34 | ..... | ..... | 192 | 177 | 2,396 | 2,803 | 41 | 74,315 |

PAY.

| | \$2,600 | ..... | \$1,800 | \$1,320 | \$1,320 | \$1,140 | ..... | \$900 | ..... | ..... | ..... |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|-------|
| District of Columbia. |  | ..... |  |  |  |  |  |  |  |  |  |
| Do..... |  | ..... |  |  |  |  |  | 1,080 | ..... |  |  |
| Saint Louis... | 3,500 | ..... | 1,800 | ..... | 1,200 | 1,200 | ..... | 900 | ..... |  |  |
| Chicago..... | 4,500 | \$3,000 | 2,000 | 1,700 | ..... | 1,200 | ..... | 900 | ..... |  |  |
| Do..... |  | ..... |  | 1,500 | ..... | 1,102 | ..... | 1,000 | ..... |  |  |
| Cleveland..... | 2,150 | 1,500 | 1,400 | ..... | 1,000 | 950 | ..... | 840 | ..... |  |  |
| New York.... | 6,000 | 3,500 | 2,750 | ..... | ..... | 1,600 | \$1,200 | 1,000 | ..... |  |  |
| Do..... |  | ..... |  |  |  |  |  | 1,100 | ..... |  |  |
| Do..... |  | ..... |  |  |  |  |  | 1,200 | ..... |  |  |

* Patrolmen in plain dress.

The above table shows our police force in rather an insignificant light, so far as the grades of officers and their number, the number of patrolmen, and the areas of territory patrolled are concerned; but, if the amount of work performed be also taken into consideration, they out-rival their brethren in the cities of Chicago, Cleveland, Saint Louis, and New York.

But the time has come when this condition of things should be changed. Many on the force who have been detailed at police court as witnesses during the time allotted them for rest, men who have consumed their private hours on public duty, those who have been patrolling for years unusually large beats, are broken down under the burden they have had to carry, and there is a score of them to-day who would like to be, and who should be, retired from service and pensioned, would the pension fund permit such a course.

Congress should grant an increase of one hundred men. That number would enable the placing on duty at one time one hundred and thirty-seven men. Such action is necessary for the required labor to be performed. The estimates call for a less number, for an increase which cannot, under any circumstances, be done without. This estimate is not calculated making allowances for any reductions to be made. Actual necessities are demanded and more recommended. No scaling is provided for.

Upon inquiry instituted no citizen or tax-payer has been found who would not gladly urge the honorable Commissioners to increase the assessment of property sufficiently to provide the additional means for this increase in the force.

The fact that the District of Columbia is almost defenseless, except in the heart of the city of Washington, is a matter that should no longer be screened. It is due to the citizens, strangers, the custodians of the Government institutions, and the people of the country that they should be made acquainted with the fact that the capital city of the Union, with its immense wealth, valuable improvements, broad avenues, and beautiful parks, in all ranking in magnificence with any city in the world, is policed by less than one hundred men at any time.

From the latest data at hand the following exhibit is deduced:

| Number of population to one po- liceman on duty. | Locality. | Average num- ber of police- men per sq're mile patrol- ling at any one time. |
|--|----------------------------|---|
| 2,700 | District of Columbia | 1 |
| 2,400 | Saint Louis | 3 |
| 1,500 | Boston | 4 |
| 2,142 | Louisville | 5 |
| 1,842 | Chicago | 9 |
| 2,625 | Cincinnati | 10 |
| 2,000 | Brooklyn | 10 |
| 1,800 | Baltimore | 14 |
| 1,395 | New York | 23 |

Simply that good order may prevail should not be the only argument for an increased police force. The same pride should exist for a permanent and perfect police organization at Washington as is manifested for lofty and substantial buildings, extensive public grounds, and elegant terraces, statues, and libraries. The true spirit of patriotism suggests that the institution which is expected to exercise daily and nightly vigilance over the national capital, its citizens, and their property, should be raised as nearly as possible to the standard of perfection.

With a prospective Centennial Exposition, which will probably out-rival anything of the kind that ever took place, and which will attract thousands of strangers from all quarters of the globe; with extensive Government reservations, which are being elaborately improved, and which are entirely under the care and protection of the police at night, and in the guarding of which the Superintendent of Public Buildings and Grounds urgently invokes the co-operation of our force; with many beats in the worst sections of the District, including over a hundred squares of valuable property, covered in some instances by one patrolman, and which can be traversed entirely over only on occasional days; with an Executive Mansion and President's home and the various Department buildings to pay special attention to; with innumerable palatial homes, from which the owners are temporarily absent during the heated term, to "pay particular attention to;" with the courts, which are in session most of the year, to furnish witnesses, attendants, and service for; with two separate railroad depots to watch over; with an army of hacks, cabs, carriages, and other vehicles to regulate as to licenses and stands; with several miles of river front and steamboat wharves to look after; with avenues to clear in times of civic and military display; with a large indolent population and hundreds of cheap groggeries in all sections conducted for their benefit; with frequent diplomatic cases exacting special and careful work, and, finally, to be compelled to submit to the embarrassments occasioned by the retention of the obnoxious Army and Navy clause in the law which no longer applies to the soldiers and sailors it was intended to benefit, and to have to select men for the force who are residents of the District of Columbia, and who have been residents thereof for two years prior to the date of appointment, which makes it impossible to secure the requisite mental, moral, and physical qualities in the selection of privates for the force, and which ostracizes valuable material that may be found among our citizens, is it not about time that the subject was given careful consideration?

The department has ample accommodation for one hundred more men, as will be seen in the annexed statements, the precinct numbers and linear measurements referred to being considered as they existed on and after August 1, 1886, when the precinct bounds were changed, and the commands, including ten privates, appointed on the force July 1, 1886.

FIRST PRECINCT (FORMERLY FIFTH PRECINCT).

| | |
|--|-----------|
| Cost of building and site, \$20,151.81. | |
| Lieutenant in command (R. A. Arnold) | 1 |
| Sergents | 3 |
| Privates on street duty | 39 |
| Privates on post duty | 3 |
| Total | <u>46</u> |
| Station-keepers | 2 |
| Driver | 1 |
| Laborer | 1 |

This precinct contains $21\frac{3}{4}$ linear miles to be patrolled, and has a population of 11,433.

The force above given is much depleted by details for the Executive Mansion, the Baltimore and Potomac depot, the various hotels, the city post-office, and theaters, and during the winter months by details

to the residences of foreign ministers and members of Congress during entertainments.

Embraced within the precinct is the principal business portion of the city, including all the banks, the largest market-house, all the theaters and other places of amusement. The principal hotels are also located here, and nearly all the bawdy houses in this city. These last are haunts of the wholly vicious portion of our population, as well as those from other cities who may visit us, and require constant watching.

In order to have this precinct properly patrolled, its residents protected, and good order maintained at all times its present force should be increased by the addition of at least twenty men.

The beds and bedding already here would suffice to accommodate this proposed increase of force, as only one-half of the officers are sleeping whilst the others are on duty, and one bed would accommodate two men. The only outlay would be for ten double or twenty single ward-robres.

With the increase of force above indicated this precinct could be kept under good police surveillance at all times.

SECOND PRECINCT (FORMERLY SIXTH PRECINCT.)

| | |
|--|----|
| Cost of bulding and site, \$14,996.07. | |
| Lieutenant in command (A. A. Greer)..... | 1 |
| Sergeants | 2 |
| Privates on street duty..... | 26 |
| Privates on post duty | 2 |
| Total | 31 |
| Station-keepers | 2 |
| Laborer | 1 |

This precinct contains an estimated length of 45 miles in avenues, streets, and alleys, and a population of between twenty-five and thirty thousand persons.

Of the twenty-six officers for active duty one performs mounted service throughout the precinct during the day; the remaining twenty five men are divided into two sections, so that during the hours of the day there are but six officers patrolling the precinct, each officer having a beat of about $7\frac{1}{2}$ miles to patrol. At night there are for one tour of duty thirteen, and for the other twelve, men to patrol an estimated length of 45 miles of avenues, streets, and alleys, giving to each beat an average of 5 miles.

These estimates are made on the basis that all the officers are present to perform their regular tours of duty, but this is not always the case, and when the absentees are deducted, who for various reasons are not present, we find these estimates, if anything, are too liberal. It may safely be assumed that on an average an officer's beat in this precinct is during the day fully 8 miles, and that of night fully 6 miles, of avenues, streets, and alleys.

It is a well-established fact that during the past fifteen years there has been a vast increase in population and wealth in this precinct, which means a proportionate increase in the duties of the police, yet the increase of the police is scarcely perceptible.

To properly patrol this precinct at least ten more officers are necessary, and for this number ample accommodations may be had in the station recently erected.

THIRD PRECINCT (FORMERLY FOURTH PRECINCT).

| | |
|--|----|
| Cost of building and site, \$10,700. | |
| Lieutenant in command (John F. Guy)..... | 1 |
| Sergeants..... | 3 |
| Privates on street duty..... | 22 |
| Privates on post duty..... | 3 |
| Total..... | 29 |
| Station-keepers..... | 2 |
| Laborer..... | 1 |

This precinct includes about 40 miles of streets and alleys, the Executive Mansion, the United States Treasury, War, Navy, and State Department building, and quite a number of public parks, besides a population of about 25,000 private citizens, with a large amount of wealth, all of which require constant police surveillance to insure safety to persons and property.

This is performed by twenty-two privates for patrol duty, divided into two platoons, which allows eleven men for duty at night and six during the day; hence it will be seen that a night man has to patrol from 3 to 5 miles and a day man from 6 to 8 miles.

About 3 per cent. of the population of this precinct leave the city during the summer months, leaving their houses vacant, the care of which is an additional duty for the officers.

Nineteen years ago, when the population and wealth of the precinct was 50 per cent. less than it is now, there were as many officers in the precinct as at present.

An increase of at least twelve privates on the force would be necessary to perform the work expected of the force. The accommodations at this station are sufficient to meet the requirements of the increase suggested.

FOURTH PRECINCT (FORMERLY FIRST PRECINCT).

| | |
|---|----|
| Cost of building and site, \$13,558.35. | |
| Lieutenant in command (C. R. Vernon)..... | 1 |
| Sergeants..... | 1 |
| Privates on street duty..... | 23 |
| Privates on post duty..... | 5 |
| Total..... | 30 |
| Station-keepers..... | 2 |
| Laborers..... | 1 |

The force in this precinct consists of one lieutenant, one sergeant, and only twenty-three men for street duty to protect a population of 26,759 and to patrol 6 square miles of ground, or 47 linear miles. There is a low negro element, in fact larger than in any other precinct, to contend with here.

An increase of sixteen men is needed for this precinct, and the present station-house can be made to accommodate the increase at a small cost.

FIFTH PRECINCT (FORMERLY EIGHTH PRECINCT).

| | |
|--|----|
| Cost of building and site, \$6,800. | |
| Lieutenant in command (J. E. Boteler)..... | 1 |
| Sergeants..... | 3 |
| Privates on street duty..... | 27 |
| Privates on post duty..... | 4 |
| Total..... | 35 |
| Station-keepers..... | 2 |
| Laborers..... | 1 |

SUBSTATION (UNIONTOWN).

| | |
|---------------------|---|
| Station-keeper..... | 1 |
|---------------------|---|

In this precinct one sergeant and five men are "mounted" for duty in the county, and there are eighteen patrolmen for duty in the city portion of the precinct. The eighteen men are divided into two platoons, to patrol an area of about 55 miles of streets and alleys, or 5 miles and a fraction to each man. Besides the streets and alleys to patrol there are a number of improved public parks to be cared for. During the summer months a large number of furnished, but unoccupied, houses have to be looked after by the officers. In this area of 55 miles there is a population of about 30,000, or an average of 3,000 persons to each patrolman. This area and population are doubled during the day.

In the county there are about 60 miles of public roads to be patrolled, or an average of 20 miles to each patrolman at night, with a population of about 4,000 inhabitants, or 1,333 $\frac{1}{3}$ to each officer, together with many market gardens, which require the attention of the officers; also many villages of from 50 to 200 inhabitants.

There are needed in this precinct for proper police protection at least sixteen more foot patrolmen and eight mounted men, who could be accommodated at this station.

SIXTH PRECINCT (FORMERLY SEVENTH PRECINCT).

| | |
|--|----|
| Cost of building and site, \$16,358.40. | |
| Lieutenant in command (John F. Kelly)..... | 1 |
| Sergeants..... | 3 |
| Privates on street duty..... | 28 |
| Privates on post duty..... | 6 |
| Total..... | 38 |
| Station-keepers..... | 2 |
| Patrol-driver..... | 1 |
| Laborers..... | 1 |

In this precinct, as at present laid out, there are about 57 miles of streets and about 18 miles of alleys to be patrolled and looked after. The largest number of policemen to patrol this amount of territory at any one time, and that is at night, is fifteen men, which includes the sergeant. Most of this number have to go in pairs for their own protection. There is no allowance made in this number for men that may be absent on account of sickness, or with leave, or details; all of which should be taken into consideration.

It would not be overestimating the population of the present precinct at about 43,000 persons. The force is entirely too small to patrol the territory within its bounds. This station-house can accommodate with sleeping facilities at least twenty-five more patrolmen.

SEVENTH PRECINCT (FORMERLY THIRD PRECINCT).

| | |
|---|----|
| Cost of building and site, \$6,710.00. | |
| Lieutenant in command (H. K. Redway)..... | 1 |
| Sergeants..... | 3 |
| Privates on street duty..... | 20 |
| Privates on post duty..... | 5 |
| Total..... | 29 |
| Station-keepers..... | 2 |
| Laborers..... | 1 |

From the best information to be had there are about 14 square miles in this precinct, including Analostan Island, in the Potomac River.

This station will accommodate about twelve more men.

EIGHTH PRECINCT (FORMERLY SECOND PRECINCT).

Cost of building and site, \$14,908.31.

| | |
|---|----|
| Lieutenant in command (J. W. Gessford)..... | 1 |
| Sergeants..... | 2 |
| Privates on street duty..... | 23 |
| Privates on post duty..... | 0 |
| Total..... | 26 |
| Station-keepers..... | 2 |
| Laborers..... | 1 |

In this precinct ten more men can be accommodated at the station if beds are furnished.

In the city portion of this precinct each man has about one-half mile of territory to patrol, and in the county portion each man has about 4 square miles.

HEADQUARTERS.

| | |
|--|----|
| Building and site rented..... | |
| Major and Superintendent (Samuel H. Walker)..... | 1 |
| Captain and inspector..... | 1 |
| Lieutenant and night inspector..... | 1 |
| Secretary and property clerk..... | 0 |
| Stenographer and clerk..... | 0 |
| Surgeons..... | 0 |
| Lieutenant of detectives..... | 1 |
| Privates detailed to special service (detectives)..... | 6 |
| Collector of fines..... | 1 |
| Total..... | 11 |
| Messengers..... | 2 |
| Ambulance-driver..... | 1 |
| Van-driver..... | 1 |
| Assistant driver..... | 1 |

At this time seventeen station-keepers are keeping the records and performing the clerical duty at nine station-houses. During the absence of the lieutenant or sergeant the station-keeper has full control of the station. In the larger precincts the work incumbent upon these employes has become so great as to necessitate the detailing of patrolmen from the force from time to time in order that the same may be kept up. Their hours of duty are twelve, five more than those of a Government clerk, and the responsibilities are greater, but at a less compensation. They should have better pay or less work.

I have asked for an increase in their number in order that the station-keepers in the larger precincts may be relieved after eight hours' service, and that the effectiveness of the police force may not be impaired by the detailing of patrolmen in a clerical capacity.

The following appeal is explanatory of itself:

WASHINGTON, D. C., August 23, 1886.

SIR: The undersigned, station-keepers of the police department, respectfully ask an increase of salary to \$900 per annum.

Knowing as you do our duties, we believe you will not think our request unreasonable. Our present salary of \$720 is inadequate to a respectable support of ourselves and families.

310 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

We would also ask that the name "station-keeper" be changed to that of clerk, as many persons who are not acquainted with the duties performed by us believe us to be laborers employed about the stations.

Hoping that our petition will meet with favorable consideration at your hands, we remain your obedient servants,

J. F. KELLY, JR.

H. L. GESSFORD.

W. C. WILKINSON.

JAMES FRANK.

SAMUEL C. BURROWS.

C. H. ENGLISH.

FRANK VIRSTEIN.

A. ECKLOFF.

J. A. FRANK.

WM. H. ROLLINS.

J. W. MIDDLETON.

S. J. SHANKS.

EDWARD W. BOSS.

JAMES COGGINS.

JAMES H. TAYMAN.

WILLIAM H. MICKLE.

JOHN F. GARNER.

Maj. SAMUEL H. WALKER,
Superintendent Metropolitan Police.

LABORERS.

One laborer is at the present time employed at each of the eight station-houses. These employes do all the work that devolves upon a janitor, besides caring for property and stray animals, feeding prisoners, and performing messenger service. The work of keeping the cells clean and free from filth requires the most of their time, so that out of the twenty-four hours these men enjoy but little recreation.

No provision has been made for this service at police headquarters, and the two messengers have heretofore been compelled to do the work in addition to their legitimate labors, which are to some extent clerical in their nature. They are thus kept employed from early morn to dark. This exaction of double work for single pay is doing an injustice to the employe, and is a detriment to the service. Two additional laborers are required, and an advance in their pay is recommended.

PATROL DRIVERS.

Should the recommendation which is made for an extension of the police patrol and telephone system prevail, the assistance of three more drivers will be required, and that the department may be enabled to operate this valuable adjunct in the night-time, which has not been done as yet, by reason of the failure to provide the necessary drivers, two more must be provided, making an increase of five altogether.

AMBULANCE DRIVER.

This driver is subject to call at all hours, day and night, and during the day is kept constantly busy removing the maimed and sick to and from the various hospitals, charity institutions, railroad depots, insane asylum, and other points, some of them not a little distance from the city. He has the care of his horses and the handling of all subjects intrusted to his care for conveyance, and at times is exposed to loathsome disease and assaults. It would be but an act of justice to allow him the additional compensation asked.

I heartily approve the recommendations of the sanitary officer for increased efficiency in the ambulance service.

CONTINGENT EXPENSES.

The fact seems to have been lost sight of in the past few years that crime and the minor offenses, if not on the increase, which is a debatable question, at least keep pace with the increasing population. An in-

creased settlement in a section is followed usually by the establishment of a school and saloon, and, despite the good influence of the former two, the latter and its hangers-on require police surveillance.

A policeman in the District, as has been shown, has over 2,000 people under his guardianship. If no additional force and facilities are granted the department, and the population keeps gaining in the same proportion that it has gained in the past six years, it must suffer increasing wear and tear in applying the means it has at hand. If it is not given three more patrol wagons, the two in use must be strained to their utmost capacity, and will require repairs during the year equivalent to those which would be required for three additional wagons, in addition to their own. So it is with equipments of all kinds; laundry, forage, furniture, telegraph, and general supply bills for the department must increase each year whether the force is added to or not. In the face of this, however, the appropriation for contingent expenses for the ensuing year was cut down \$1,000 less than the year before. The result is that the department's facilities must suffer or a deficiency be created; and the prospects for the latter, despite the fact that rigid economy is the order of the day, may be set down as well assured.

For example, the expenses of the department for the last two years show that there was paid—

| For— | 1885. | 1886. |
|--------------------------|----------|----------|
| Forage..... | \$385 39 | \$657 85 |
| Meals to prisoners..... | 395 85 | 476 56 |
| Laundry work..... | 364 43 | 502 20 |
| Patrol wagons..... | 325 00 | 325 00 |
| Ambulance..... | | 375 00 |
| Horses..... | 584 00 | 700 00 |
| Repairs to vehicles..... | 233 85 | 186 80 |
| Horseshoeing..... | 121 62 | 154 37 |
| Furniture..... | 319 79 | 727 14 |
| Printing..... | 298 13 | 634 95 |
| Photographing..... | 267 75 | 105 00 |
| Total..... | 3,295 81 | 4,844 87 |

The expenditures were increased in the year 1885 by the photographing of "inauguration-day thieves."

To maintain the service in an effective and becoming shape, whether the improvements asked for are granted or not, the amount estimated for as "contingent expenses" will be needed.

PATROL SYSTEM.

Two years ago an appropriation was made for the establishment of the police telephone and patrol system in the fifth police precinct. The good results accomplished by its use in other cities led to its adoption here. After a year's trial it proved itself to be all that was claimed for it, and the following year the apparatus was placed in the seventh precinct, and it is now being erected in the fourth precinct. This system has earned a good record here, and should be adopted in the remaining precincts without delay. By its use the officers are relieved of dragging prisoners through the streets to the station-houses, and their beats are not left temporarily uncovered. In cases of accident the unfortunates are promptly removed to where medical attention and necessary care may be had. The police are enabled to make prompt response to calls for assistance and to be upon the scene of a conflagration without the

delay which often permits of depredations being committed or interference with the application of the fire department apparatus. This adjunct is no longer an experiment, and it would be economy to extend it another year within the territory the estimates call for. That it should be consummated by yearly piecemeal appropriations is neither economical nor wise.

The following reports of the operations of the service in the two precincts that have been named will give a general idea of its value to the department :

FIFTH PRECINCT STATION, July 1, 1886.

SIR: I respectfully beg leave to make the following report in relation to the patrol service of this precinct for the year ending June 30, 1886:

| | |
|---|--------|
| Number of calls made by officers reporting from their beats..... | 55,266 |
| • Telephone messages sent and received | 1,328 |
| Wagon calls from signal box by officers..... | 331 |
| Wagon calls from signal box by citizens | 22 |
| Calls for officers by citizens answered by patrol wagon | 70 |
| Calls for patrol wagon from headquarters..... | 123 |
| Miscellaneous calls for patrol wagon | 320 |
| Trips made by patrol wagon with abandoned or stolen property to headquarters and police court | 34 |
| Sick and disabled persons taken to hospitals | 127 |
| Sick and disabled persons taken to homes | 41 |
| Accidents attended and injured persons taken to their homes or hospitals..... | 37 |
| Persons taken to Government Hospital for Insane | 7 |
| Persons taken to Almshouse | 9 |
| Persons taken to Little Sisters of the Poor | 1 |
| Persons taken to House of Mercy | 1 |
| Persons taken to Women's Christian Home | 3 |
| Prisoners taken to United States jail..... | 1 |
| Children taken to Children's Country Home..... | 3 |
| Children taken to Home Industrial School | 6 |
| Children taken to Orphans' Home..... | 1 |
| Girls taken to House of Good Shepherd | 9 |
| Abandoned infants taken to St. Ann's Orphan Asylum | 5 |
| Lost children restored to parents | 14 |
| Times reserve force attended fires | 12 |
| Sick and disabled persons conveyed to railroad depots..... | 1 |
| Deceased persons removed | 8 |
| Deserters taken to marine barracks..... | 2 |
| Deserters taken to United States navy-yard | 2 |
| Prisoners taken to railroad depots and placed in charge of officers of other jurisdictions | 4 |
| Dead animals reported | 148 |
| Dangerous places in streets and alleys reported | 35 |

The miscellaneous work of the patrol wagon consisted in conveying prisoners to the police court, to photograph gallery, conveying them from one precinct to another, and in taking the officers from point to point in working up larceny cases.

Respectfully submitted.

R. A. ARNOLD,
Lieutenant, Commanding.

Maj. SAMUEL H. WALKER,
Superintendent Metropolitan Police.

WASHINGTON, D. C., July 1, 1886.

SIR: I have the honor to state that the patrol system has now been in operation in this precinct about fifteen months, and I am glad to be able to say that it is the most beneficial improvement ever introduced into the police department. It not only gives the continued presence of the officers upon their beats, but also prevents all such disorders as fighting and wrangling upon the streets between the officers and arrested parties as formerly existed. This system will be even more beneficial as it becomes more general. Our patrol wagon is frequently called to go to extreme parts of the city.

I herewith submit a report of the service of the patrol system in this precinct for the last fiscal year :

| | |
|--|--------|
| Number of reports by officers from the boxes | 58,000 |
| Calls by officers for wagon from boxes | 733 |
| Calls by citizens for wagon from boxes | 64 |
| Casualties reported through boxes | 110 |
| Dead animals reported through the boxes | 186 |
| Dispatches sent and received | 42 |
| Calls from headquarters for wagon | 193 |
| Miscellaneous trips with wagon | 70 |
| Trips to ho-pitals with patients | 188 |
| Times reserves taken to fires | 22 |

Very respectfully,

JOHN F. KELLY,
Lieutenant, Seventh Precinct.

Maj. SAMUEL H. WALKER,
Superintendent Metropolitan Police.

POLICE-BOAT.

The report of the harbor-master of the District of Columbia will readily show that the Potomac River traffic in and about the District is a very important feature to be looked after. Heretofore the department, on occasions when a boat was required to suppress violation of law or to preserve the peace in and along the river front, has had to pay for boat-hire. For want of a harbor service many criminals escape detection, and the game laws, despite the call for it, cannot be strictly enforced. Operations are soon to be begun at the navy-yard, and a greater amount of police surveillance will be expected along the Eastern Branch of the river. That the shipping interests and Government improvements in the Potomac, and that the entire front may be properly patrolled and guarded, I make the request for a steam-launch with pumping facilities.

Had this provision been made a year ago the disastrous fire which occurred last spring, destroying the dredge at work reclaiming ground in the Potomac and other property, valued at sixty or seventy-five thousand dollars, might have been averted.

Some of the complaints which the department cannot make satisfactory response to are like these:

SIR: The lives and safety of the men employed upon the improvement of the Potomac River are greatly endangered by the constant gunning on the reclaimed flats (since the 1st instant). The men at work are often hidden by the high weeds, and are liable to be shot by the gunners, who often fire recklessly. I have frequently forbidden gunners on the reclaimed flats by public notice, and I would respectfully request that you would detail officers to prevent its continuance. The localities where the greatest trouble is experienced are *below* and immediately *above* the Long Bridge causeway and near the Monument grounds.

Very respectfully,

PETER C. HAINS,
Major of Engineers, Bvt. Lieut. Col., U. S. A.

Maj. SAMUEL H. WALKER,
Superintendent of Police, District of Columbia.

SIR: I beg to call your attention to alleged violations of the game law upon the Eastern Branch.

The rail and reed birds are beginning to come in there in great numbers, and, as you are doubtless aware, tempt many shooters to risk being caught on account of the ready sale and good prices during the present month.

The law prohibiting the killing of these birds before the 1st of September is a very wise one, and if enforced will maintain an almost undiminished supply for years to

come. On the other hand, if people are permitted to shoot at them upon their first arrival, and keep at it as fast as they come, these useful birds will soon be either killed off entirely or driven elsewhere. I believe one or two arrests each season will be sufficient. The great majority of gunners are law-abiding and prefer to wait.

I respectfully request that you issue special instructions to officers in the neighborhood of the jail, Benning's Bridge, and the shore between the navy-yard and the Congressional Cemetery, particularly the mounted officers, to look out for these shooters when they land, and arrest them at once if they have any birds, and also to arrest any one found hawking birds about the streets before the 1st of September.

Respectfully,

J. E. HOSFORD,

Vice-Pres. Nat. Ass'n for Protection of Birds and Fish.

Maj. S. H. WALKER,
Chief of Police, D. C.

The actual needs of the department, the improvements that are required, and facilities that must be had, in addition to those it already possesses, to place it upon a good footing and in organized shape, in a manner befitting such a department at the capital of the Union, have been recited in as brief a manner as possible. How that which has been granted has been utilized heretofore, and is now being applied, it was obligatory on our part to show in order that the providing power might be better enabled to grasp the emergency and to more thoroughly appreciate the position the department occupies. For the first time the labor that is exacted of those composing it has been fully and elaborately presented in the hope that it may to some extent serve to operate to that consummation so much to be desired, when our expectations, hopes, and necessities in this direction may be realized and provided for.

REMEDIES REQUIRED.

Every large city has its idle and shiftless population, and ours is not an exception in this regard. In proportion to the entire population various circumstances beyond human control have exercised an influence which has made that class in Washington much larger than that of other cities. And it is not our own indolent population alone that we have to deal with. Being in close proximity to and easy of access from neighboring States and towns, those without means, and who despise an honest way to get them, find the capital a happy retreat, where the crumbs from the hotel, restaurant, and boarding-house table afford many of them sustenance during the summer months, while a steady application to their favorite vocation and an unsuspecting and ever-charitable public and private community keeps them from starving during the winter. Besides these there is another class of persons, many of them capable and willing, who, after serving in Government employ for a time, finally find themselves thrown out upon the world without shelter and food, and without that ambition and energy which would seek out something for their hands to do in other cities. Some of these in time recover themselves, while others go the road to ruin. Again, there are many who have work and receive for it a far greater remuneration, with the spare time that accompanies it, than they know how to properly apply and take care of.

From these three classes of indolent people emerges that element with which the police come in contact each day, and it has been estimated in numbers at between 20,000 and 25,000 people. It is this element which supplies not only the capital, but the material for the groggeries, pool, poker, policy, and lottery cribs, and in the end the subjects for our asylums, work-house, jail, penitentiary, and gallows.

LIQUOR LICENSES.

The stringent regulations of your honorable board during the past year with relation to the "stovepipe" dealer, who is patronized largely by the classes that have been referred to, will soon rid the community of these venders. They sell a drink, a drunk, and an assault, if not a murder, for the minimum price. While by your more stringent regulations many of them have taken out the bar-room or retail license, it is satisfactory to know that a considerable number of them have also been forced to abandon the traffic. As things were, it was an easy matter to procure a wholesale liquor license, the price of which (\$25) was almost the sole requirement, and then the sales of these people would realize them little did they not violate the law and permit the use of the drink upon their premises. In enforcing the liquor law we find those who possess the required hundred dollars prepared to take out the increased or bar-room license in order that their goods may be consumed at their resorts if they can but secure the legal number of resident and property-owning signers, while those who fight for delay to continue at wholesale in the groggery business, either have not the means to defray the expense of the bar-room or higher license or have not the standing to procure the necessary signatures to obtain it. Many of the latter have a grocery attachment, and not only permit a violation of the law which forbids liquor being drunk on the premises, but under the guise of supplying groceries on Sunday the "back room" and "bar-room" are reached, and there the Sunday law is laughed at.

Of the crimes committed in this District during the past year the greater portion of them had their origin near the place where a wholesale supply of drink could be had at one-third the retail price.

The retail or bar-room people are very square and upright in one particular, and that is their establishments are as a general thing in localities where it is not necessary to exhume them from a labyrinth of groceries in order to discover the character of their patrons or when violation of the law is being indulged in. They are always in plain view of the police and are conducted in as orderly a manner as the generality of such establishments. Yet among them are many who would be compelled to drop out of the business under a high-license law, coupled with increased police surveillance. The spy system, or buying of drinks by officers or their agents, is a course to be deprecated. The end does not justify the means. In attempting to discourage intemperance it is being encouraged, and especially on the part of those who should abstain from it above all others. A physician and policeman should always maintain a clear mind. The officer on the beat should be held accountable for all violations of law which he has the means at hand to prevent. There is but one means by which the liquor traffic can be abridged at the capital, and that is by higher license for the retailer and an extermination of the corner grocery and stove-pipe saloons.

The retailer who has two doors to his premises on different streets should also be required to obtain the usual property and householder signers for each door and pay a double license.

THE POOL-ROOM.

By far the greatest evil that has sprung up in our midst and which is discountenanced in the largest cities of the country is the pool-room, where books are made on current and often on past events. Men and boys of all ages patronize them, and we have had presented us several

examples where young men with bright prospects have gone the downward path through these influences. Here young boys are being educated in the ways that are dark and tricks that are vain. Clerks in the Departments neglect their vocation in pursuit of the gain which never materializes. There may be some excuse for the practice on the race-course, where it is under the scrutiny and observation of the club management and where the trials are in plain view, but the operation of these pool dens in the District, where the word of the operator must be accepted as fact, enables the largest amount of odds to be offered by him and the greatest number of people to be skinned by him.

As our law on the subject has been adjudged deficient, it would be well for Congress to substitute the New York law, which has been found iron-clad in its application. As applied here the law should read:

"A person who keeps any room, shed, tenement, tent, booth, or building, or any part thereof, or who occupies any place upon any public or private grounds within the city of Washington with books, apparatus, or paraphernalia for the purpose of recording or registering bets or wages or of selling pools, and any person who records or registers bets or wagers or sells pool upon the result of any trial or contest of skill, speed, or power of endurance of man or beast, or upon the result of any political nomination, appointment, or election, or being the owner, lessee, or occupant of any room, shed, tenement, booth, or building, or part thereof, knowingly permits the same to be used or occupied for any of these purposes, or therein keeps, exhibits, or employs any device or apparatus for the purpose of recording or registering such bets or wagers, or the selling of such pools, or becomes the custodian or depository for hire or reward of any money, property, or thing of value staked, wagered, or pledged upon any such result, is punishable by imprisonment for one year, or by fine not exceeding \$2,000, or both."

THE MACHINE.

Recently the department has had its attention invited to the "stock indicator," an invention evidently the outgrowth of a faro manipulator's mind, and to those who have "bucked the tiger" in its operations it would present many of the same fascinating and familiar features. The machine is applied to the victim who "drops in" to invest with the same adroitness and skill as is the faro deal. It proposes to publish the variations in grain and stock prices, but the true fluctuations are not reproduced. The same institutions were operated for a time in Baltimore, but the law was held to cover the case in that instance, and the backer was brought to justice, and the game succumbed.

Our grand jury has found a bill against the operator of the machine in this city, with a view of determining the legality of the device, and it is to be hoped that our courts will follow the wise example set by those of Maryland.

SOCIAL-IMPROVEMENT CLUBS.

Our gambling law is held as sound so far as its application to faro is concerned, but the courts seem loath to interrupt the "social organizations" and "mental-improvement clubs," which are duly incorporated under the law, that have begun to flourish in our midst, where the pastime is draw-poker.

The prime and predominant principle upon which these decisions are based is that every man's house is his castle, and that the police have no right to intrude upon the pleasures and entertainments therein.

These clubs exist in all parts of the city, and, while most of them are conducted in an orderly manner without serious inconvenience or discomfort to the general public, there are others where the stranger is gathered within the gates and fleeced. Whether the courts sustain the department in its honest endeavors to break up gambling or not, the department will continue to harass and annoy patrons of the gaming table, to do its full duty in the premises, in anticipation of Congress sooner or later enacting such a law as cannot be evaded. In Western cities the game of draw-poker is no longer permitted to prevail, under penalty of conviction for felony.

The organization and incorporation of these "poker-houses" was readily grasped by several saloon-keepers as a happy idea, which could be applied to their houses, where the "clubs" would meet on Sundays free from police molestation.

POLICY AND LOTTERY.

While there is some policy playing being indulged in through shrewd devices, this climate for players and backers has become very warm, and they correspondingly scarce. Every now and then a case is brought to light, and the courts have generally upheld the officers. So it has been with the venders of lottery-tickets, and, although the evil has been pretty thoroughly eradicated, there are surface indications which must sooner or later lead to the arrest of every distributor of tickets in the District. The department has less respect for these people than it has for the gambler, and our facilities will be used against them and their practices.

GUIDES.

The practice of the department has been to issue credentials to worthy persons in this connection, but the "guide" who formerly did the "steering" for the gambler and bunco man has been caught exacting sums of money from strangers as an admission fee to public buildings. Every one of them should be deprived of the color of any authority and the public cautioned against employing all who represent themselves as "authorized."

THE CHINESE.

The Celestial in this city is fast becoming Americanized; several of them are conducting laundries here, and the police have recently discovered them conducting opium-houses in connection therewith, and in the true California fashion. They are quick to discover that there is no law by which they can be punished, and this, coupled with the fact that they have been protected in their rights by the police as citizens, seems to have added to their impertinence and boldness. Congress should not be slow in granting us relief from this growing evil.

Congress would confer a great benefit on the District would it at as early a day as possible grant your honorable Board, if special laws are not enacted to cover these classes of evils against society, the authority to arrange and promulgate regulations by which they can be suppressed. Such an act has already, I understand, passed the Senate. It could be made applicable to such nuisances as the police court will not take cognizance of, and which it is almost impossible to get grand juries to bother with. Such regulations would answer in lieu of a dog law, which has been disabled by court decisions, and should also apply to policy, crowing roosters, gongs attached to vehicles, and bells carried by scis-

sors-grinders; to articles found in public places and vehicles; to hacks, coaches, and cabs; to ball pool and billiard rooms; to lamps and their extinguishing by unauthorized parties; to news-boys and boot-blacks; to beggars and vagrants; to signs, sign-boards, and obstructions of all kinds; to children jumping on and off railroad and street cars, whereby frequent accidents occur; to rag-pickers; to crowded cars and vehicles; to the throwing of debris upon the streets and pavements; to parks and parking and their damage by chickens; to the wharves and harbor, wagons, peddlers, produce hucksters, &c. The conferring of such authority would enable the police to maintain peace and good order and prevent nuisances being committed, and to punish perpetrators who are the cause of the many constant complaints which are made through private citizens and the public press.

PERMITS.

It has been customary for the Superintendent to recommend that vendors of peanuts and novelties and conductors of entertainments of a charitable nature be permitted to transact their sales or conduct their festivities without first obtaining license therefor. The growing demand for these privileges has induced the Superintendent to limit recommendations for the same. The peddler of notions on the street is often a deserving and unfortunate one whom the privilege will enable to bridge over a rainy day, but the issue of such permits indiscriminately without thorough investigation of the character and worthiness of the applicant is an unjust discrimination against the merchant and citizen who pays a license to operate. Many of the society festivities upon investigation are found to be arranged for individual benefit and profit, but labeled "charity," in order to come within the provisions of the law. All such, an honest execution of the trust committed to my care necessitates my ignoring. Not seldom, also, are these affairs conducted by the vicious element in the community.

CHARITY.

A fund is appropriated by your honorable Board for the care of the deserving poor. Where, after investigation, cases are found to be really worthy, temporary aid should be given, but there are many who do not desire and who will not seek or do work during the warm weather, with large families, who come to our doors with the snow and winds of winter. These must not be allowed to suffer, and to this end I shall endeavor to care for the relief fund in summer for use during the cold months, that there may be no need for its exhaustion, whereby the suffering poor become dependent upon the charity of an always willing and generous community.

OUR GIRLS.

It has been my pleasure to visit and inquire into the workings of the Reform School for boys in the District, and it is conducted with that skill and intelligence which must be required to bring about the meritorious ends which its name implies.

There is not, however, included among our institutions a reformatory for girls, and the need of it is every day more apparent. There should be a division provided for as a reform school for girls, where the same remedies might be had for them as are had for boys. Measures could be adopted so as to make it a part of the Industrial Home School, care

being taken to distinguish between cases requiring the application of reform methods, or the same might be arranged in conjunction with the Reform School for boys. But such cannot be done without the aid of Congress. The police returns of females arrested under the age of twenty years, many of whom are proper subjects for such a retreat, will readily convince one not enlightened on the subject of the grave necessity that exists for the establishment of a place where the incorrigible and wayward or viciously inclined female of tender years may be cared for and have that excellent training and teaching which is now being bestowed upon the same class of boys.

INEBRIATES.

Our insane asylum should not be regarded as an institution for the confinement of persons laboring under temporary derangement of mind superinduced by the use of intoxicating drinks. *Mania a potu* and kindred aberrations should not involve either the expense or skill of treatment which attaches to the examination of the unfortunate whose reason is permanently impaired or of which he may be deprived for years. While inebriety may be a species of insanity, at the same time the insane asylum is not equipped with a view of caring for the victims of protracted or temporary self-indulgence. When a reasonable period of time has elapsed for their restoration to reason and the mental faculties are found to be seriously impaired, then only should the insane asylum be sought.

Yet there is daily call for an asylum where the victim of drink may be cared for. If such is not soon provided I would recommend that those suffering under such maladies be first secured in the work-house, whence they may be readily transferred to the insane asylum, if found to be insane.

By reference to the report of the sanitary officer, the various data pertaining to admissions to the several charitable institutions and hospitals will be found. Those in charge have at all times been courteous and ready to respond to all calls made upon them by the department. By their ever-willing co-operation the department has been able to promptly dispatch, and in a creditable manner, the most delicate, yet imperative, business belonging to this branch of the service.

The Night Lodging House, where those without food and shelter are temporarily cared for, is a most useful refuge. It should be supported by the good citizens of the District.

THE HUMANE SOCIETY.

This organization is accomplishing much good, yet the defects of our laws, in many instances, operate as a detriment. The penalties of the act of February 13, 1885, should be so amended as to give the police court jurisdiction in cases of children. The department has had detailed to assist the society Private C. W. O'Neill, who makes the following gratifying exhibit of the cases disposed of by him during the fiscal year 1886:

| | |
|-----------------------------------|------|
| Number of cases investigated..... | 131 |
| amicably adjusted | 121 |
| prosecuted | 10 |
| fined | 5 |
| dismissed..... | 2 |
| personal bonds taken..... | 3 |
| | — 10 |

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| | |
|--------------------------------------|----|
| Number of children provided for..... | 64 |
| committed to Foster Home..... | 2 |
| House of Good Shepherd..... | 3 |
| Hospital..... | 8 |
| Industrial Home School..... | 1 |
| Reform School..... | 1 |
| St. Ann's Infant Asylum..... | 18 |
| St. Vincent's Orphan Asylum..... | 1 |
| National Home for Colored..... | 2 |
| Washington Asylum..... | 9 |
| Washington City Orphan Asylum..... | 12 |
| provided with homes..... | 7 |
| | 64 |

POLICE IMPROVEMENTS.

The recommendations which I have made and may make to your honorable Board in the course of a little time, will involve a complete revision of the rules and regulations prescribed for the government of the police department, and to the end that they may be properly reconstructed, so as to embody all orders promulgated by your honorable Board from time to time, I would suggest that one of the attorneys for the District be designated by you to assist the Major and Superintendent in this important task. Many of the rules are impracticable and matters are omitted which should have the force of law so far as the government of the department is concerned.

In order that the police of the national capital may be identified readily by the stranger or citizen it is necessary that his attire should be different from that of citizens or semi-citizens, and there should be prescribed for them such pattern of hat, clothing, and emblems as will make their identity unquestionable in the day or night time. They now wear a fatigue uniform in the summer while on duty, which should give place to a dress suit for duty at all times. An improvement could be made not only in the material from which the clothing is made, but in the making of it. On Pennsylvania avenue there should be a squad of men for duty, had we the men to detail there without uncovering back and contiguous streets and beats, who, as well as those in and about the Executive Mansion and grounds and other prominent places, should be required to dress with a taste corresponding to their general excellent deportment and courteous manners. Changes should be made in their equipments, the wooden baton giving way to the swivel pocket baton, the ponderous Colt's revolver should be replaced with a smaller and just as effective weapon, the belt should be discarded generally, and the citizen's hat now worn give way to more appropriate head-gear.

PROMOTIONS.

The number of arrests made by a member of the force should not be recommendation for promotion from the first to the second class, but promotions from one of these classes to the other should be made in the order of the man's appointment upon the force, provided his conduct and intelligent attention to duty has been such as would justify such promotion, which should be made upon the recommendation of the Major and Superintendent.

PROPERTY STABLES.

The recommendation of the property clerk that animals above the value of \$40 taken up as lost, abandoned, or estrayed should be cared for and fed at the police stations having stables attached is a timely one and should be approved by your honorable Board.

DISABLED AND INFIRM POLICEMEN.

Privates of the first class deserving promotion are deprived of their deserts by reason of there being no provision for vacancies existing in the second class, except by the retirement or dismissal from among the latter. The condition of the policemen's or pension fund will not warrant the first step, and it is seldom the second course becomes necessary. Again, increased details to post duty are necessitated by reason of the force carrying upon the rolls many who have grown gray in the service.

Rheumatism and kindred troubles have taken hold of others who have braved the storms of a score of winters, all of which depreciate the effectiveness of the force. In justice to these officers, who are unable to keep up with the procession, they must be retained until they can be retired with an income sufficient to keep the wolf from their doors, that in their declining days they may not be thrown upon the cold world to eke out an existence. Let Congress abolish the Army and Navy clause in the law governing appointments on the force and provide means for the care of our veterans; then new life and vigor will be introduced into it, which will add to the strength, effectiveness, and appearance of our police organization.

There are many ways by which the policemen's fund might be made to rapidly accrue, so that in a few months the interest upon the plant already well started would suffice to support the disabled as they may be retired.

I would suggest that Congress appropriate \$1 to the fund for every dollar appropriated to it by the policemen themselves. Under the act approved February 25, 1885, each member of the force now has \$1 pay deducted monthly for credit to the fund. If Congress would grant an additional \$12 a year to the pay of the members of the force and authorize a deduction of \$2 instead of one, as now, the question would be solved.

According to the report of the Treasurer of the United States, who is the ex-officio commissioner of the sinking fund of the District of Columbia, made July 1, 1886, the status of the policemen's fund was:

| | |
|--|-------------|
| District Columbia 3.65 per cent. bonds | \$23,350 00 |
| Cash uninvested..... | 4,136 98 |
| Total..... | 27,486 98 |

The large amount of cash on hand was due to the call for redemption of certain United States 3 per cent. bonds, in which a portion of the fund was invested.

Since July 1, 1886, there has been advanced for deposit to the fund the \$1 a month deduction from each man's pay, equivalent to about \$554. As against this fund and its accumulations the following-named persons are drawing each month the several pension sums set opposite their respective names:

| | |
|--|---------|
| The children of the late Officer Gorman, five of them..... | \$50 00 |
| Ex-officer D. F. Crump..... | 50 00 |
| Ex-officer G. W. Nokes..... | 50 00 |
| Ex-officer Grafton Harper..... | 50 00 |
| Ex-officer S. L. Kearney..... | 40 00 |
| Ex-officer R. A. Milstead..... | 30 00 |
| Ex-officer William Powell..... | 30 00 |
| Ex-officer J. G. Harper..... | 30 00 |
| Ex-officer H. L. Atchison..... | 30 00 |
| Total..... | 360 00 |

To this sum must be added \$75 for the funeral expenses of deceased members, two of whom have died since the first of the year.

The annual interest on the fund as it stood July 1, 1886, would amount to \$852.27.

| | |
|----------------------------------|------|
| The monthly interest to..... | \$71 |
| From members' pay, monthly | 277 |

348

The contributions last year to the fund by the property clerk were the largest yet made, as will be seen by reference to that officer's report, and to the above must be added the monthly deposits, now ranging from \$30 to \$75 per month, which would make the entire monthly accumulation to the fund from all sources—

| | |
|---------------------------|----------|
| About | \$400 52 |
| Monthly pension-roll..... | 360 00 |

40 52

This condition of the fund to-day, in case an officer was disabled in the line of duty, would enable us to pension him at not more than \$40.52 per month without making draft on the principal.

An officer is cited to appear by special order before a board consisting of the four police surgeons and the captain, and a thorough examination made of his case, considering the length and character of his service, on which a recommendation is based for retirement and the amount he should receive as pension, for the information of the superintendent, who forwards the same with his recommendation to your honorable Board.

THE MORGUE.

In connection with the completion of the Sixth Precinct Station a room has been allotted for the use of the coroner. At the present time and for years past the District has been without a proper temporary receptacle for dead bodies, where they might be held for the view of the coroner and for identification, free from the sight of a curious public.

This dead-room will have but the crude furnishings that belong to such an institution, and I would respectfully recommend that immediate provision be made for a tablet, glass case, and the usual water facilities required for the proper placing and keeping of bodies. The expense will be but a small one.

DRYING ROOMS.

Each station-house should have a boiler attached to the furnace, whereby hot water could be had, and the heat could be utilized from the connecting pipes for drying the clothing of the men in bad weather. No relief from such exposure and discomfort is now afforded.

A LOT REQUIRED.

Adjoining the Fifth Precinct Station-house is a lot which should be purchased by your honorable Board. In case my recommendation for an extension of the patrol system to this precinct is approved and granted this lot would be necessary for the erection of a stable or shed, where our own and stray animals could be quartered.

A SUBSTATION.

A suitable building for prisoners should be provided for at Tennallytown. As no provision is asked for the patrol system in the seventh precinct, officers in the county would be saved the annoyance and difficulty of leaving their beats and bringing prisoners a distance of 3 miles into the city, and direct communication would be established by wire with that section of the District were this done.

ENLARGEMENT OF THE THIRD.

This station-house should be extended back 10 feet and the cell rooms back of that to give us the required accommodations for officers and prisoners.

CONCLUSION.

Some disaffection has existed among a few of the men in past years, the result, for the greater part, of petty jealousies which have grown out of the methods employed in making arrests and promotions. It will be but a short time before all these breaches will be healed and the department working, it is to be hoped, in complete unison and harmony. These feelings are confined to a very few of the members, and it is to be deprecated that such was ever the case. Those of the men who have a proper appreciation of their duty and the trust committed to their care will, I hope, aid the Superintendent in securing the eradication of such evils. Those who persist in a continuance of the practice by word or act are not worthy of the trust imposed, and should be themselves eradicated.

It gives me pleasure to state, however, that the captain, lieutenants, and their subordinates, and the civilian officers generally, have shown a ready disposition to aid the Superintendent in his efforts to secure good discipline and the protection of the lives of our citizens, as well as their property and that of the Government.

I shall continue to invoke and expect it from them, and in all other requirements made be as reasonable and lenient as good discipline and thorough organization will permit, fully aware of the fact that at all times the criminals and violators of law are their sworn enemies, with whom they must constantly contend under great disadvantages, and even to the imperilment of their lives.

This elaborate report is made with the confidence that it will awaken an intelligent consideration of the needs of the department and the application of a speedy remedy.

Respectfully submitted.

SAMPL H. WALKER,
*Major and Superintendent Metropolitan Police,
District of Columbia.*

To the COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

324 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Estimate of expenses for Metropolitan police for fiscal year 1888.

| | |
|--|------------|
| One major and superintendent | \$2,600 00 |
| One captain | 1,800 00 |
| Two inspectors, at \$1,500 | 3,000 00 |
| One property clerk | 1,800 00 |
| One clerk | 1,500 00 |
| Two clerks, at \$900 | 1,800 00 |
| Four surgeons, at \$600 | 2,400 00 |
| For special service, prevention and detection of crime | 2,400 00 |
| Eight lieutenants, at \$1,320 | 10,560 00 |
| Thirty sergeants, at \$1,140 | 34,200 00 |
| One hundred and fifty privates, class 1, at \$900 | 135,000 00 |
| One hundred and sixty privates, class 2, at \$1,080 | 172,800 00 |
| Twenty-two station-keepers, at \$720 | 15,840 00 |
| Ten laborers, at \$480 | 4,800 00 |
| One messenger | 700 00 |
| One messenger | 500 00 |
| One major and superintendent, mounted | 240 00 |
| One captain, mounted | 240 00 |
| Twenty-five lieutenants, sergeants, and privates, mounted, at \$240 | 6,000 00 |
| Seven patrol drivers, at \$360 | 2,520 00 |
| One van driver | 360 00 |
| One ambulance driver | 600 00 |
| One assistant driver | 300 00 |
| Rent of station at Anacostia and police headquarters | 1,200 00 |
| Fuel | 2,000 00 |
| Repairs to stations | 2,000 00 |
| Miscellaneous and contingent expenses, including stationery, books, telegraphing, photographs, printing, binding, gas, ice, washing, meals for prisoners, furniture and repairs to same, beds and bed-clothing, insignia of office, horses, police equipments and repairs to same, harness, forage, repairs to van, ambulance, and patrol wagons, and expenses incurred in the prevention and detection of crime | 16,000 00 |
| For transportation of paupers and prisoners | 5,000 00 |
| For police signal and telephone system in 2d, 3d, and 5th precincts, including wagons and horses | 15,000 00 |
| One steam launch and equipments for Potomac River service and engineer for same | 1,500 00 |

HEADQUARTERS METROPOLITAN POLICE, PROPERTY CLERK'S OFFICE, Washington, D. C., September 1, 1886.

SIR: I have the honor to transmit herewith an abstract from the several records in this office, showing its operations for the fiscal year 1886.

As the custodian of lost, stolen, and abandoned property coming into the possession of the police, I have deemed it important that a report of the estimated value of all such property and the disposition of the same should be made annually, though not formerly the practice.

I would most respectfully suggest in this connection that the lieutenants of police in making returns of property exercise every means to secure the true valuation of the same. Heretofore in many instances it has been excessive, which is verified by the prices obtained for articles at the annual sales, though the values are often depreciated by destruction from moths.

The property clerk should have provided at once quarters at one of the precinct station stables where stray animals coming into his possession might be cared for until delivered to the owners.

A moth, damp, and fire proof vault would insure the protection of much of the property received by him, which is frequently destroyed before cases are closed in the courts and restitution of property is ordered. In the absence of this I have classified all property in my charge, securing important evidence and jewelry in an iron safe; second-class, or property not required in court, in the order received, is stored in wooden cases, and the third-class, or abandoned and lost articles, mostly of little value, in order, in the vacant rooms allotted this office.

The following is the estimated value of receipts and disbursements of all property returned during the past year:

| | | |
|----------------|--|------------|
| June 30, 1885. | Estimated value of property on hand, registered 1885..... | \$3,525 14 |
| | Estimated value of property sold in 1886..... | \$841 90 |
| | Estimated value of property delivered to owners, 1886..... | 527 07 |
| | | 1,368 97 |
| June 30, 1886. | Balance, estimated value..... | 2,156 17 |

| | Received. | Delivered to owners. | Released bond. | Sold. |
|--|-----------|----------------------|----------------|----------|
| 1885. | | | | |
| July..... | \$947 61 | \$684 25 | \$145 00 | |
| August..... | 1,045 04 | 618 53 | | \$8 00 |
| September..... | 1,245 76 | 800 09 | 175 00 | |
| October..... | 3,122 44 | 2,666 75 | 120 00 | |
| November..... | 901 62 | 1,071 37 | | |
| December..... | 1,888 69 | 576 00 | | |
| 1886. | | | | |
| January..... | 1,024 90 | 1,491 65 | | |
| February..... | 740 11 | 1,100 25 | | |
| March..... | 863 54 | 678 05 | | |
| April..... | 181 65 | 574 60 | | |
| May..... | 360 65 | 298 50 | 20 00 | |
| June..... | 753 00 | 189 08 | | |
| Total..... | 13,075 01 | 10,749 12 | 460 00 | 8 00 |
| June 30, balance, estimated value, 1886..... | | | | 1,857 89 |
| June 30, total, estimated value, 1886..... | | | | 4,014 06 |

The property clerk is not only held accountable for the proper care and disposition of the classes of property referred to, but upon him, with one assistant and a detailed officer, devolve the various clerical duties at headquarters—the keeping of the records prescribed by law, the rendering of reports, and responding to all correspondence.

Two privates from the force were formerly assigned to assist at this work, one of whom died a year ago, and which detail has just been filled. This will enable the old records of the department, dating back to its organization, to be indexed, and many of the old entries to be made that were omitted. These records are frequently consulted by the public and the department, and it is of the first importance that they should be complete.

Your attention is respectfully invited to the following statement of the financial and other operations of the department, which will, in many respects, make a more uniform exhibit another year by reason of the forms adopted by you for making precinct returns.

I am under obligation for prompt official courtesies extended by the members of the force.

OBITUARY.

The first day of the fiscal year just closed dawned with the announcement of the death of Private John J. Gorman, who had been detailed to clerical work under the property clerk for several years.

Private Gorman was an educated, capable man, a kind father, true friend, and an officer at all times awake to the responsibilities of the position he held.

Respectfully,

RICHARD SYLVESTER,

Property Clerk Metropolitan Police District, D. C.

SAMUEL H. WALKER,

Major and Superintendent Metropolitan Police.

326 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Statement of receipts from fines, rewards, &c., and deposits, made to policemen's fund.

| | | | |
|-----------|--|-----------|-----------|
| 1885. | | | \$30 00 |
| June 30. | Balance due (see Report 1885)----- | | |
| 1886. | | | 1, 005 00 |
| June 30. | To amount fines imposed, trials----- | | 89 12 |
| | To amount fines imposed, time lost----- | | 286 50 |
| | To amount rewards----- | | 831 12 |
| | To amount property sales----- | | |
| | Dr. to policemen's fund.----- | 2, 241 74 | |
| 1885. | | | \$40 00 |
| Aug. 25. | By amount deposited to police fund----- | | 71 31 |
| Sept. 8. | By amount deposited to police fund----- | | 124 19 |
| Oct. 10. | By amount deposited to police fund----- | | 120 38 |
| Nov. 14. | By amount deposited to police fund----- | | 164 82. |
| Dec. 9. | By amount deposited to police fund----- | | |
| 1886. | | | 141 32 |
| Jan. 8. | By amount deposited to police fund----- | | 86 25 |
| Feb. 1. | By amount deposited to police fund----- | | 952 30 |
| Mar. 4. | By amount deposited to police fund----- | | 89 17 |
| Apr. 7. | By amount deposited to police fund----- | | 72 40 |
| May 6. | By amount deposited to police fund----- | | 62 50 |
| June 7. | By amount deposited to police fund----- | | 38 00 |
| July 7. | By amount deposited to police fund----- | 1, 962 64 | |
| | | 279 10 | |
| 1885. | | | 5 87 |
| Sept. 1. | By amount, Middleton's time, remitted----- | | |
| 1886. | | | 25 00 |
| Mar. 17. | By amount, Dailey, fine, remitted----- | | 30 00 |
| July 1. | By amount, Reding (dismissed) remitted----- | | |
| 1885. | | | 7 50 |
| July 29. | By amount, Costello, one-half reward----- | | 5 00 |
| July 29. | By amount, Mattingly, one-half reward----- | | 10 00 |
| Sept. 25. | By amount, Bailey, one-half reward----- | | 10 00 |
| Oct. 1. | By amount, Galway, one-half reward----- | | 5 00 |
| Oct. 26. | By amount, Henry <i>et al.</i> , one-half reward----- | | 10 00 |
| Nov. 12. | By amount, Mulhall, one-half reward----- | | 15 00 |
| Dec. 9. | By amount, Mulhall <i>et al.</i> , one-half reward----- | | |
| 1886. | | | 5 00 |
| Jan. 1. | By amount, Acton <i>et al.</i> , one-half reward----- | | 5 00 |
| Feb. 2. | By amount, Burn <i>et al.</i> , one-half reward----- | | 32 50 |
| Feb. 2. | By amount, Burn, one-half reward----- | | 5 00 |
| Feb. 17. | By amount, Barry, one-half reward----- | | 5 00 |
| Feb. 16. | By amount, Barry, one-half reward----- | | 5 00 |
| Feb. 16. | By amount, Diggins, one-half reward----- | | 2 50 |
| April 1. | By amount, Fainter, one-half reward----- | | 15 00 |
| April 1. | By amount, Wall, one-half reward----- | | 5 00 |
| June 3. | By amount, Bryan <i>et al.</i> , one-half reward----- | | |
| 1885. | | | 21 73 |
| Sept. 11. | By amount, advertising proposals for uniforms----- | 225 10 | |
| 1886. | | | 54 00 |
| June 30. | Balance due----- | | |
| 1883. | | | 22 00 |
| May 28. | To amount per W. J. Dunivan-Ryan, creditors----- | | |
| 1886. | | | 22 00 |
| July 1. | By amount deposited to police fund----- | | |
| 1885. | | | 8 00 |
| July 30. | To amount for relief Tolson heirs <i>et al.</i> (see Report 1884)----- | | |
| 1886. | | | 8 00 |
| July 1. | By amount deposited to police fund----- | | |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 327

LOST REVOLVERS.

| | | |
|----------|--|---------|
| 1883. | | |
| May 28. | To amount per W. J. Dunivan | \$78 50 |
| Nov. 15. | To amount per Private Horn | 9 00 |
| 1884. | | |
| May 1. | To amount per Private Slater | 15 00 |
| Aug. 1. | To amount per Private Sadler | 15 00 |
| 1885. | | |
| April 1. | To amount per Private Brown | 15 00 |
| Oct. 1. | To amount per Private Meehan | 15 00 |
| | | <hr/> |
| | | 147 50 |
| 1883. | | |
| July 1. | By amount, Peabody, repairs to revolvers | \$5 00 |
| July 17. | By amount, 6 Colt's revolvers and express | 67 05 |
| 1884. | | |
| June 30. | By amount, Peabody, repairs to revolvers | 9 00 |
| June 30. | By amount, 1 Colt's revolver, replaced by Horn | 9 00 |
| 1885. | | |
| June 30. | By amount, express on revolvers | 81 |
| June 30. | By amount, Peabody, repairs to revolvers | 5 50 |
| June 30. | By amount, 2 Colt's revolvers and express | 22 51 |
| June 30. | By amount, 1 Colt's revolver | 10 50 |
| 1886. | | |
| June 30. | By amount, Peabody, repairs to revolvers | 4 00 |
| | | <hr/> |
| | | 133 37 |
| June 30. | Balance on hand | 14 13 |

POLICE RELIEF ASSOCIATION.

| | | |
|-----------|---|----------|
| 1886. | | |
| July 1. | To amount collected for Ex-Private Mills' heirs | \$306 00 |
| Sept. 14. | To amount collected for Ex-Private Gorman's heirs | 311 00 |
| | | <hr/> |
| | | 617 00 |
| July 18. | By amount Mrs. Mills | \$300 00 |
| Sept. 14. | By amount Gorman children | 311 00 |
| Sept. 14. | By amount Mrs. Mills | 6 00 |
| | | <hr/> |
| | | 617 00 |

Estimated value of money and property coming into the possession of the police from all sources and returned to the owners and property clerk.

| | Det. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------|----------|-----------|-----------|----------|-----------|------------|-----------|------------|------------|
| 1885. | | | | | | | | | |
| July..... | \$988 01 | \$924 54 | \$969 06 | \$550 24 | \$962 60 | \$2,670 03 | \$431 47 | \$2,612 24 | \$1,812 33 |
| August..... | 529 50 | 1,228 36 | 1,463 58 | 851 33 | 1,861 07 | 7,926 24 | 1,191 98 | 3,763 27 | 1,952 43 |
| September..... | 864 68 | 723 43 | 944 87 | 396 14 | 1,940 61 | 4,008 83 | 865 78 | 2,702 62 | 2,435 51 |
| October..... | 1,927 84 | 1,163 50 | 1,449 42 | 379 35 | 1,075 95 | 5,487 33 | 522 78 | 2,427 75 | 1,203 71 |
| November..... | 938 86 | 1,232 35 | 1,783 11 | 604 35 | 2,179 50 | 9,738 26 | 895 67 | 2,253 93 | 1,460 62 |
| December..... | 1,657 90 | 1,057 46 | 2,792 03 | 1,964 40 | 1,077 28 | 4,321 71 | 1,082 39 | 3,877 66 | 1,408 15 |
| 1886. | | | | | | | | | |
| January..... | 87 00 | 786 94 | 648 47 | 316 60 | 804 06 | 3,716 68 | 581 29 | 2,613 63 | 1,143 43 |
| February..... | 483 35 | 461 19 | 1,053 21 | 1,154 77 | 1,626 95 | 5,080 06 | 651 60 | 2,204 47 | 4,368 75 |
| March..... | 653 88 | 1,594 40 | 1,872 61 | 948 90 | 1,937 08 | 5,694 33 | 3,013 28 | 2,033 28 | 1,720 85 |
| April..... | 507 95 | 660 20 | 1,318 40 | 338 91 | 483 64 | 2,829 82 | 559 75 | 2,124 78 | 2,613 74 |
| May..... | 817 16 | 1,834 99 | 1,717 49 | 219 20 | 966 25 | 4,233 29 | 1,057 15 | 1,529 79 | 1,151 54 |
| June..... | 476 87 | 762 54 | 1,375 21 | 107 46 | 811 12 | 4,989 66 | 707 10 | 1,658 72 | 1,322 25 |
| Total..... | 9,933 00 | 11,929 90 | 17,387 46 | 7,831 65 | 15,726 41 | 60,696 18 | 11,560 24 | 29,802 14 | 21,693 51 |

Grand total \$186,560.59

328 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

CHANGES IN THE FORCE.

| | | |
|--|-------|--|
| 1885. | | |
| June 30. Full complement..... | 262 | |
| Total force..... | 262 | |
| 1886. | | |
| June 30. Resigned..... | 7 | |
| Dismissed..... | 9 | |
| Retired on pension..... | 5 | |
| Died..... | 2 | |
| | 23 | |
| Reduction..... | 239 | |
| Increase by act of Congress..... | 5 | |
| Vacancies..... | 23 | |
| Total force..... | 267 | |
| Appointments..... | 28 | |
| Communications received..... | 4,844 | |
| Communications sent..... | 1,781 | |
| Communications received by detective office..... | 183 | |
| Communications sent by detective office..... | 218 | |

No. 1.—Table showing the disposition of the force.

| Precincts. | Major and super-intendent. | Captain and inspector. | Lieutenants. | Sergeants. | Privates. | Detailed. | Total. |
|------------------------------------|----------------------------|------------------------|--------------|------------|-----------|-----------|--------|
| 1..... | 1 | 1 | 1 | 3 | 21 | 6 | 33 |
| 2..... | | | 1 | 3 | 26 | | 29 |
| 3..... | | | 1 | 3 | 18 | 4 | 26 |
| 4..... | | | 1 | 2 | 27 | 3 | 33 |
| 5..... | | | 1 | 3 | 24 | 5 | 33 |
| 6..... | | | 1 | 2 | 22 | 1 | 26 |
| 7..... | | | 1 | 3 | 30 | 9 | 43 |
| 8..... | | | 1 | 2 | 25 | 5 | 33 |
| Night inspector..... | | | 1 | | | | 1 |
| Headquarters and police court..... | | | | | | 2 | 2 |
| Detectives..... | | | 1 | | | 6 | 7 |
| Sanitary..... | | | | | | 1 | 1 |
| Total..... | 1 | 1 | 10 | 20 | 195 | 40 | 267 |

No. 2.—Table showing time lost by sickness and other causes.

| Precincts. | Sick. | With leave. | Suspended. | Without leave. | Days. |
|-----------------|-------|-------------|------------|----------------|-------|
| 1..... | 379 | 231 | 13 | 5 | 628 |
| 2..... | 340 | 269 | | 2 | 611 |
| 3..... | 375 | 171 | | | 546 |
| 4..... | 496 | 214 | 3 | 7 | 720 |
| 5..... | 207 | 190 | 13 | 9 | 409 |
| 6..... | 537 | 228 | 17 | | 802 |
| 7..... | 536 | 330 | 14 | 3 | 883 |
| 8..... | 443 | 241 | | | 684 |
| Detectives..... | 2 | 20 | | | 22 |
| Total..... | 3,335 | 1,894 | 50 | 26 | 5,305 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 329

No. 3.—Table showing number of arrests in each precinct.

| Precincts. | Males. | Females. | Total. |
|-----------------|--------|----------|--------|
| 1..... | 2,124 | 672 | 2,796 |
| 2..... | 2,206 | 367 | 2,573 |
| 3..... | 1,268 | 227 | 1,495 |
| 4..... | 1,971 | 311 | 2,282 |
| 5..... | 4,969 | 676 | 5,645 |
| 6..... | 1,539 | 346 | 1,885 |
| 7..... | 3,038 | 359 | 3,397 |
| 8..... | 1,582 | 284 | 1,866 |
| Detectives..... | 373 | 76 | 449 |
| Total..... | 19,070 | 3,318 | 22,388 |

No. 4.—Table showing the ages of the males arrested (classified.)

| Precincts. | From 10 to 20. | From 20 to 30. | From 30 to 40. | 40 and over. | Total. |
|-----------------|----------------|----------------|----------------|--------------|--------|
| 1..... | 417 | 768 | 504 | 435 | 2,124 |
| 2..... | 591 | 593 | 369 | 653 | 2,206 |
| 3..... | 280 | 446 | 237 | 305 | 1,268 |
| 4..... | 424 | 535 | 459 | 553 | 1,971 |
| 5..... | 879 | 1,746 | 1,157 | 1,187 | 4,969 |
| 6..... | 432 | 372 | 340 | 395 | 1,539 |
| 7..... | 513 | 944 | 612 | 969 | 3,038 |
| 8..... | 343 | 450 | 304 | 485 | 1,582 |
| Detectives..... | 61 | 149 | 89 | 75 | 373 |
| Total..... | 3,940 | 6,003 | 4,071 | 5,057 | 19,070 |

No. 5.—Table showing the ages of the females arrested (classified.)

| Precincts. | From 10 to 20. | From 20 to 30. | From 30 to 40. | 40 and over. | Total. |
|-----------------|----------------|----------------|----------------|--------------|--------|
| 1..... | 130 | 269 | 155 | 118 | 672 |
| 2..... | 119 | 112 | 66 | 70 | 367 |
| 3..... | 83 | 75 | 38 | 31 | 227 |
| 4..... | 64 | 90 | 86 | 71 | 311 |
| 5..... | 149 | 313 | 125 | 89 | 676 |
| 6..... | 72 | 129 | 77 | 68 | 346 |
| 7..... | 58 | 111 | 82 | 108 | 359 |
| 8..... | 57 | 114 | 33 | 80 | 284 |
| Detectives..... | 23 | 31 | 19 | 3 | 76 |
| Total..... | 735 | 1,244 | 681 | 638 | 3,318 |

No. 6.—Recapitulation of offenses (classified).

| Offenses against the person. | Males. | Females. | Total. |
|----------------------------------|--------|----------|--------|
| Accessory to murder..... | 1 | ..... | 1 |
| Affray..... | 717 | 79 | 796 |
| Assault..... | 335 | 80 | 415 |
| Assault and battery..... | 1,113 | 901 | 2,014 |
| Assault with intent to kill..... | 74 | 12 | 86 |
| Assaulting policemen..... | 39 | ..... | 39 |
| Attempt at rape..... | 12 | ..... | 12 |
| Barber-shops open Sundays..... | 4 | ..... | 4 |
| Bigamy..... | 3 | ..... | 3 |
| Blackmailing..... | 3 | ..... | 3 |
| Backing policy..... | 12 | ..... | 12 |
| Criminal libel..... | 11 | ..... | 11 |
| Cruelty to children..... | ..... | 5 | 5 |
| Carrying concealed weapons.. | 192 | 2 | 194 |
| Conspiracy..... | 3 | ..... | 3 |
| Contempt of court..... | 114 | 38 | 152 |

No. 6.—Recapitulation of offenses (classified)—Continued.

| Offenses against the person. | Males. | Females. | Total. |
|---------------------------------------|--------|----------|--------|
| Creating a nuisance..... | 38 | 22 | 60 |
| Disorderly conduct..... | 1,795 | 499 | 2,294 |
| Deserters..... | 18 | | 18 |
| Enticing prostitution..... | | 3 | 3 |
| Fugitive from parents..... | 51 | 33 | 84 |
| Fugitive from Reform School..... | 7 | | 7 |
| Fugitive from Insane Asylum..... | 11 | 1 | 12 |
| Fugitive from Industrial School..... | 5 | | 5 |
| Fugitive from justice..... | 47 | 5 | 52 |
| Fast riding or driving..... | 52 | | 52 |
| Habitual drunkenness..... | 70 | 9 | 79 |
| Incorrigibility..... | 59 | 5 | 64 |
| Indecent exposure of person..... | 177 | 8 | 185 |
| Indecent assault..... | 8 | | 8 |
| Insanity..... | 64 | 14 | 78 |
| Intoxication..... | 3,968 | 300 | 4,268 |
| Intoxication and disorderly..... | | | 938 |
| Interfering with policemen..... | 2 | 1 | 3 |
| Keeping disorderly house..... | 17 | 8 | 25 |
| Keeping bawdy house..... | 2 | 16 | 18 |
| Keeping gambling house or tables..... | 13 | | 13 |
| Keeping policy shop..... | 2 | | 2 |
| Loud and boisterous..... | 120 | 23 | 143 |
| Miscellaneous misdemeanors..... | 340 | 73 | 413 |
| Murder..... | 15 | | 15 |
| Mayhem..... | 2 | | 2 |
| Perjury..... | 7 | 1 | 8 |
| Profanity..... | 1,061 | 289 | 1,350 |
| Rape..... | 5 | | 5 |
| Resisting officer..... | 13 | | 13 |
| Refusing to pay hack hire..... | 84 | 3 | 87 |
| Selling lottery tickets..... | 14 | | 14 |
| Threats of violence..... | 386 | 178 | 564 |
| United States witnesses..... | 172 | 43 | 215 |
| Vagrancy..... | 888 | 293 | 1,181 |
| Writing policy..... | 54 | 7 | 61 |
| Surrendered by bondsmen..... | 1 | | 1 |
| | | | 16,086 |

No. 7.—Recapitulation of offenses (classified).

| Offenses against property. | Males. | Females. | Total. |
|--|--------|----------|--------|
| Arson..... | 5 | 1 | 6 |
| Attempt to steal..... | 3 | | 3 |
| Buying stolen goods..... | 9 | | 9 |
| Cruelty to animals..... | 214 | 11 | 225 |
| Destroying private property..... | 91 | 16 | 107 |
| Destroying public property..... | 13 | 1 | 14 |
| Embezzlement..... | 36 | | 36 |
| Forgery..... | 9 | 1 | 10 |
| Grand larceny..... | 88 | 28 | 116 |
| Gift enterprise..... | 1 | 1 | 2 |
| Highway robbery..... | 4 | | 5 |
| Housebreaking (day)..... | 19 | 1 | 20 |
| Housebreaking (night)..... | 61 | 1 | 62 |
| Larceny from person..... | 56 | 3 | 59 |
| Malicious mischief..... | 1 | 2 | 3 |
| Obtaining goods or money by false pretenses..... | 37 | 1 | 38 |
| Petit larceny..... | 799 | 187 | 986 |
| Passing counterfeit money..... | 8 | | 10 |
| Receiving stolen goods..... | 30 | 4 | 34 |
| Suspicion..... | 864 | 95 | 959 |
| Trespass..... | 233 | 13 | 246 |
| Violation building regulations..... | 50 | | 50 |
| Violation United States shipping laws..... | 10 | | 10 |
| Violation United States postal laws..... | 3 | | 3 |
| Violation dog law..... | 973 | 52 | 1,025 |
| Violation District of Columbia ordinances..... | 1,737 | 183 | 1,920 |
| Violation liquor law..... | 268 | 28 | 296 |
| Violation hack law..... | 14 | | 14 |
| Violation water regulations..... | 30 | 4 | 34 |
| | | | 6,302 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 331

Nativity of those arrested (classified).

| Nativity. | Number. | Nativity. | Number. |
|---------------|---------|---------------------|---------|
| Algiers | 3 | Italy | 112 |
| Austria | 1 | Norway | 1 |
| Austria | 1 | Persia | 6 |
| Canada | 26 | Poland | 2 |
| China | 8 | Prussia | 131 |
| Denmark | 3 | Romania | 12 |
| Egypt | 1 | Russia | 49 |
| England | 111 | Sicily | 6 |
| France | 36 | Scotland | 46 |
| Germany | 589 | Spain | 1 |
| Greece | 2 | Sweden | 20 |
| Holland | 2 | Switzerland | 9 |
| Hungary | 2 | Turkey | 1 |
| Indian | 2 | United States | 19,791 |
| Ireland | 1,412 | Wales | 2 |

Recapitulation of offenses (classified).

| Offenses against property. | Males. | Females. | Total. |
|-----------------------------|--------|----------|--------|
| Married | 7,599 | 1,154 | 8,753 |
| Unmarried | 11,483 | 2,152 | 13,635 |
| Read and write | 15,492 | 2,100 | 17,592 |
| Cannot read and write | 3,590 | 1,206 | 4,796 |

No. 8.—Callings as given by those arrested.

| Occupation. | Num-ber. | Occupation. | Num-ber. | Occupation. | Num-ber. |
|-----------------------|----------|----------------------|----------|-----------------------|----------|
| Auctioneers | 3 | Coachmen | 12 | Glaziers | 2 |
| Agents | 191 | Clock-makers | 1 | Gamblers | 2 |
| Apprentices | 70 | Cash-boys | 2 | Housekeepers | 1,025 |
| Actors | 16 | Collectors | 1 | Harness-makers | 35 |
| Architects | 1 | Constables | 1 | Hotel-keepers | 23 |
| Authors | 1 | Conductors | 3 | Hucksters | 227 |
| Awning-makers | 1 | Caulkers | 2 | Hackmen | 24 |
| Army officers | 1 | Car drivers | 7 | Hod-carriers | 2 |
| Attendants | 1 | Cattle brokers | 15 | Hoslers | 25 |
| Artists | 6 | Canvassers | 3 | Housewives | 8 |
| Bakers | 114 | Compositors | 1 | Hatters | 6 |
| Barbers | 152 | Correspondents | 2 | Horse jockeys | 6 |
| Bartenders | 70 | Coutiers | 1 | Inspectors | 2 |
| Brokers | 53 | Canners | 1 | Iron-workers | 2 |
| Bricklayers | 392 | Coach-makers | 3 | Inventors | 3 |
| Butchers | 161 | Dyers | 5 | Janitors | 14 |
| Bootblacks | 95 | Drivers | 928 | Jewelers | 9 |
| Barkeepers | 400 | Doctors | 56 | Junk dealers | 14 |
| Blacksmiths | 213 | Dairymen | 46 | Journalists | 4 |
| Boiler-makers | 8 | Draughtsmen | 4 | Linemen | 2 |
| Book-binders | 21 | Druggists | 23 | Liverymen | 40 |
| Brick-makers | 29 | Dentists | 3 | Laborers | 6,896 |
| Basket-makers | 6 | Drovers | 8 | Lawyers | 91 |
| Boatmen | 21 | Drummers | 11 | Laundrymen | 6 |
| Brewers | 23 | Dealers | 6 | Letter-carriers | 3 |
| Builders | 9 | Dressmakers | 8 | Lasters | 8 |
| Broom-makers | 6 | Engineers | 87 | Lamp-lighters | 7 |
| Bankers | 1 | Editors | 10 | Locksmiths | 2 |
| Brass-finishers | 3 | Expressmen | 5 | Lithographers | 36 |
| Bill-posters | 3 | Ex-Congressmen | 1 | Moulders | 20 |
| Book-keepers | 3 | Electricians | 4 | Miners | 298 |
| Butlers | 3 | Engravers | 10 | Merchants | 14 |
| Bleachers | 1 | Farmers | 284 | Millers | 96 |
| Carpenters | 499 | Foremen | 35 | Machinists | 4 |
| Clerks | 1,395 | Firemen | 20 | Managers | 57 |
| Coopers | 16 | Fishermen | 5 | Messengers | 34 |
| Curriers | 2 | Florists | 2 | Musicians | 35 |
| Cooks | 61 | Glass blowers | 61 | Marines | 2 |
| Cigar-makers | 91 | Gardeners | 120 | Mattress-makers | 10 |
| Confectioners | 19 | Grocers | 6 | Ministers | 4 |
| Cabinet-makers | 13 | Guides | 1 | Monte-men | 5 |
| Caterers | 14 | Groomsmen | 2 | Masons | 102 |
| Contractors | 81 | Gasfitters | | News-boys | |

332 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

No. 8.—*Callings as given by those arrested*—Continued.

| Occupation. | Num-ber. | Occupation. | Num-ber. | Occupation. | Num-ber. |
|-----------------------|----------|-------------------------|----------|--------------------------|----------|
| None | 706 | Quarrymen | 5 | Sailmakers | 2 |
| Nurses | 4 | Reporters | 41 | Stenographers..... | 3 |
| Operators | 4 | Restaurant keepers..... | 54 | Teachers..... | 3 |
| Oyster-shuckers..... | 2 | Rag-pickers | 13 | Thieves..... | 13 |
| Prostitutes | 685 | Riggers | 12 | Tinners..... | 109 |
| Printers | 363 | Roofers | 2 | Telegraph operators..... | 96 |
| Plumbers | 129 | Stone-cutters..... | 134 | Tailors..... | 87 |
| Plasterers..... | 151 | Shoemakers | 185 | Time-keepers | 2 |
| Peddlers | 62 | Silversmiths..... | 2 | Tinkers | 5 |
| Painters | 432 | Servants..... | 1,285 | Undertakers | 8 |
| Police-men..... | 30 | School-boys..... | 611 | Upholsterers..... | 724 |
| Paper-hangers..... | 34 | School-girls..... | 94 | Voodoo doctors..... | 32 |
| Policy writers..... | 20 | Sailors..... | 130 | Wheelwrights..... | 2 |
| Pressmen | 13 | Soldiers | 258 | Washerwomen..... | 11 |
| Pawnbrokers..... | 7 | Students | 13 | Watchmen..... | 4 |
| Pensioners..... | 13 | Saddlers | 3 | Waiters..... | 80 |
| Porters..... | 36 | Salesmen | 2 | Whitewashers..... | 224 |
| Photographers..... | 7 | Stationers..... | 2 | Wood-sawyers..... | 1 |
| Puddlers | 28 | Special officers..... | 1 | Weavers..... | 3 |
| Pavers..... | 28 | Superintendents..... | 12 | Wire-workers..... | 3 |
| Paper-box makers..... | 2 | Steel-workers..... | 1 | Watchmakers..... | 1 |
| Poundmasters..... | 2 | Store-keepers..... | 123 | | |
| Pilots..... | 4 | Stone-masons..... | 4 | | |
| Policy dealers..... | 13 | Seamstresses..... | 3 | | |
| Produce dealers..... | 51 | Saloon-keepers..... | 36 | | |
| | | | | | 22,388 |

GENERAL INFORMATION.

| | |
|---|-------------|
| Total number of cases | 22,388 |
| Dismissed | 8,446 |
| Nolle pro..... | 1,830 |
| Jail | 833 |
| Security grand jury | 51 |
| Bonds to keep peace | 206 |
| Personal | 1,164 |
| Surrendered to various authorities and institutions..... | 239 |
| Sent to the several District reformatories and out of the city..... | 1,638 |
| Fined | 7,808 |
| Not disposed of..... | 173 |
| Number fines imposed..... | 1,638 |
| Amounting to | \$61,902 08 |
| Number of losses reported..... | 1,767 |
| Amounting to | \$68,013 05 |
| Amount of which was reported "lost or mislaid"..... | \$27,655 95 |
| Amount of all losses recovered | \$8,553 05 |
| Amount returned to property clerk..... | \$5,292 63 |
| Amount returned to owners..... | 3,260 42 |
| Amount returned to prisoners..... | 1,905 25 |
| Losses reported— | |
| by housebreaking in day | 30 |
| by housebreaking in night | 262 |
| by highway robbery | 11 |
| by larceny from person | 84 |
| by larceny from United States Government..... | 1 |
| by larceny, grand..... | 166 |
| by larceny, petit..... | 1,032 |
| by embezzlement | 33 |
| by forgery | 10 |
| by false pretenses..... | 26 |
| by confidence games | 2 |
| by lost or mislaid | 108 |
| by passing counterfeit money | 2 |

INCIDENTALS.

| | |
|---------------------------|-----|
| Attempted suicides | 14 |
| Accidents reported | 414 |
| Assistance rendered | 341 |

| | |
|--|-----------|
| Animals astray | 296 |
| Animals to poundmaster | 76 |
| Animals to property clerk | 11 |
| Dead infants found | 96 |
| Dead bodies found | |
| Dangerous or broken pavements | 967 |
| Doors and windows found open | 269 |
| Dangerous holes in carriageway | 647 |
| Deaths, coroner notified, no inquest | 119 |
| Dead animals reported | 4,684 |
| Dangerous buildings reported | 47 |
| Fires attended. (Fires by all precincts) | 235 |
| Fire-plugs leaking | 49 |
| Filthy gutters | 47 |
| Fire boxes broken | 1 |
| Filthy sewers and alleys reported | 61 |
| Found sick on the street | 99 |
| Found, infants abandoned | 21 |
| Fountains out of order | 27 |
| Hydrants out of order | 548 |
| Inquests attended | 32 |
| Lamps not lighted | 2,708 |
| Lost children returned | 161 |
| Lodgers accommodated | 5,033 |
| Lamps out of order | 814 |
| Pumps out of order | 217 |
| Runaways reported | No report |
| Sewers out of order | 272 |
| Sudden death | 106 |
| Sewer coverings out of order | No report |
| Trees and boxes damaged (reported one quarter) | 98 |
| Telegraph wires down | 5 |
| Telegraph messages sent and received | 42,701 |
| Water mains out of order | 184 |
| Notices served | No report |
| Permits examined | 1,119 |

VISITS TO STATIONS.

| | |
|---|-------|
| Honorable Commissioners, District of Columbia | 7 |
| Major and superintendent | 1,008 |
| Captain and inspector | 1,710 |
| Night inspector | 1,003 |
| Surgeons | 229 |

COMMITMENTS TO PENITENTIARY FROM JULY 1, 1885, TO JUNE 30, 1886.

1. Green, Michael, black, assaulting an officer, one year in Albany penitentiary, July 3, 1885.
2. Briscoe, George, black, assaulting an officer, one year in Albany penitentiary, July 3, 1885.
3. Stanard, William, *alias* William Fitzhugh, black, mayhem, two years in Albany penitentiary, July 6, 1885.
4. Dyson, Augustus, black, manslaughter, three years in Albany penitentiary, July 7, 1885.
5. Ouden, Alice, black, grand larceny, one year in Albany penitentiary, July 7, 1885.
6. Hayden, Lucian H., white, forgery, eighteen months in Albany penitentiary, July 9, 1885.
7. Chrismond, Moses, white, housebreaking at night, two years in Albany penitentiary, September 26, 1885.
8. Jackson, Francis, black, petit larceny, one year in Albany penitentiary, September 28, 1885.
9. Coleman, Abraham, black (second offense), petit larceny, three years in Albany penitentiary, September 28, 1885.

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10. Duckett, Ephraim, black, larceny from the person, two years in Albany penitentiary, September 28, 1885.
11. Carter, Mansel, black, housebreaking at night, larceny from the person, and larceny, one year in each case, three years in all, September 29, 1885.
12. Price, Robert Lewis, black, assault with intent to kill, two years in Albany penitentiary, September 29, 1885.
13. Lester, John, black, housebreaking at night, two years in Albany penitentiary, September 29, 1885.
14. Willkerson, Joseph, black, assault with intent to kill, three years in Albany penitentiary, September 30, 1885.
15. Johnson, William, black, housebreaking, three years in Albany penitentiary, September 30, 1885.
16. Rollins, Frank, white, housebreaking in day time (two charges), eighteen months in each case, October 1, 1885.
17. Moore, James, black, housebreaking at night, three years in Albany penitentiary, October 1, 1885.
18. Edward, Albert, black, grand larceny, reform school during minority, October 1, 1885.
19. Scott, Edward, black, housebreaking at night, one year in Albany penitentiary, October 1, 1885.
20. Brown, Mark, black, larceny from person, four years in Albany penitentiary, October 2, 1885.
21. Luckett, Thomas, black, housebreaking in night, three years in Albany penitentiary, October 2, 1885.
22. Lee, John, black, assault with intent to kill, two years in Albany penitentiary, October 5, 1885.
23. Sharp, James, black, assault with intent to commit rape, eighteen months in Albany penitentiary, October 6, 1885.
24. Jones, Alexander, black, assault with intent to commit rape, three years in Albany penitentiary, October 6, 1885.
25. Von Baron, Rudolph, white, false pretenses, twenty months in Albany penitentiary, October 7, 1885.
26. Wilson, William, black, petit larceny, reform school during minority, October 13, 1885.
27. Temple, James, black, petit larceny (second offense), three years in Albany penitentiary, October 13, 1885.
28. Jewell, Florence, black, petit larceny (second offense), eighteen months in Albany penitentiary, October 20, 1885.
29. Garner, John, white, housebreaking at night, two years in Albany penitentiary, October 20, 1885.
30. Carr, John, black, larceny, two years in Albany penitentiary, October 21, 1885.
31. McKane, Thomas, white, larceny, reform school during minority, unless sooner discharged, October 21, 1885.
32. Watson, Thomas, black, housebreaking in day time, eighteen months in Albany penitentiary, October 21, 1885.
33. Catou, John, white, larceny, one year in Albany penitentiary, October 22, 1885.
34. Healy, William, white, larceny, one year in Albany penitentiary, October 26, 1885.
35. Thomas, Grant, black, larceny (second offense) and petit larceny, eighteen months in Albany penitentiary in each case, October 26, 1885.
36. Burgess, Adolphus, black, housebreaking at night, three years in Albany penitentiary, October 21, 1885.
37. Beckman, James, white, larceny (second offense), one year in Albany penitentiary, October 31, 1885.
38. Lewis, Carter, black, horse-stealing and larceny, four years in Albany penitentiary, November 9, 1885.
39. Smith, Coat, black, housebreaking at night, two years in Albany penitentiary, November 9, 1885.
40. Hebborn, William H., black, larceny from the person, two years in Albany penitentiary, November 9, 1885.
41. Washington, Rose, black, larceny (two cases), three years (eighteen months in each case) in Albany penitentiary, November 21, 1885.
42. Naughton, Patrick, white, manslaughter, five years in Albany penitentiary, November 21, 1885.
43. Summons, Anderson, black, larceny, one year in Albany penitentiary, November 27, 1885.
44. Ward, William, black, false pretenses, one year in Albany penitentiary, December 21, 1885.

45. Lewis, Charles B., black, housebreaking at night, eighteen months in Albany penitentiary, December 21, 1885.
46. Hamilton, Charles, black, manslaughter, six years in penitentiary, December 26, 1885.
47. Summerfield, Louis, white, murder, to be hanged.
48. Lee, Richard J., black, murder, to be hanged.
49. Nardello, Antonio, white, murder, to be hanged.
50. Henning, Andrew, white, petit larceny, eighteen months in Albany penitentiary, January 23, 1886.
51. Bonnelo, Herbert, white, larceny, reform school during minority, February 2, 1886.
52. Adams, James, black, petit larceny, eighteen months in Albany penitentiary, February 3, 1886.
53. West, Kate, black, larceny, one year in Albany penitentiary, February 3, 1886.
54. Turner, Oscar, black, petit larceny, thirty months in Albany penitentiary, February 3, 1886.
55. Forbes, Lester W., white, larceny, one year in Albany penitentiary, February 3, 1886.
56. Carroll, James, black, larceny, two years in Albany penitentiary, March 22, 1886.
57. Matteo, Prisetello, white, violating section 5457 Revised Statutes United States, two years in Albany penitentiary, February 12, 1886.
58. Arrigo, Salvatore, white, violating section 5456 Revised Statutes United States, two years in Albany penitentiary, February 12, 1886.
59. Williams, James, black, petit larceny, two years in Albany penitentiary, February 13, 1886.
60. Betters, John, black, assault with intent to kill, two years in Albany penitentiary, February 15, 1886.
61. Bush, John H., black, assault with intent to kill, two years in Albany penitentiary, February 16, 1886.
62. Orr, Robert, manslaughter, three years in Albany penitentiary, February 25, 1886.
63. Jones, Abraham, black, assault with intent to kill, three years in Albany penitentiary, April 7, 1886.
64. Taylor, Owen, black, housebreaking in night, five years, April 12, 1886.
65. Warren, Edward, white, assault with intent to kill, two years in Albany penitentiary, April 13, 1886.
66. Banf, George, white, larceny from the person, two years in Albany penitentiary, April 9, 1886.
67. Nally, William, white, larceny from the person, two years in Albany penitentiary, April 12, 1886.
68. Gunnell, Ludwell, black, conspiracy, one year in Albany penitentiary, April 6, 1886.
69. Adrians, John H., white, conspiracy, eighteen months in Albany penitentiary, April 6, 1886.
70. Cornwell, Charles H., white, housebreaking at night, two years in Albany penitentiary, May 1, 1886.
71. Jackson, Samuel, black, perjury, five years in Albany penitentiary, May 1, 1886.
72. Mandell, John, black, housebreaking, three years in Albany penitentiary, April 12, 1886.
73. Warfield, Jefferson, *alias* Jeffrey Warfield, black, bigamy, two years in Albany penitentiary, May 8, 1886.
74. Minor, Battle, black, perjury, five years in Albany penitentiary, April 28, 1886.
75. Sherman, John, black, larceny from person, two years in Albany penitentiary, May 17, 1886.
76. Haddenfeldt, William, white, forgery, three years in Albany penitentiary, May 19, 1886.
77. Anderson, William, black, housebreaking in night, three years in Albany penitentiary, May 20, 1886.
78. Eager, George W., *alias* Kaiser, black, assault with intent to kill, two years in Albany penitentiary, May 20, 1886.
79. Price, James, black, assault with intent to kill, three years in Albany penitentiary, May 24, 1886.
80. Hunter, Lawrence Napoleon, black, violating sections 3891 and 5467 Revised Statutes United States, thirty days in jail in one case, and one year in Albany penitentiary in other, June 5, 1886.
81. Smith, William, *alias* Charles Smith, black, housebreaking, three years in Albany penitentiary, June 5, 1886.
82. Hitz, John, white, false entries in bank-book, five years in Albany penitentiary, June 4, 1886.*

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83. Prentiss, Charles E., white, false entries in bank-book, five years in Albany penitentiary, June 4, 1886.*
84. Madden, John, *alias* Joseph Thomas, black, petit larceny (second offense), three years in Albany penitentiary, June 11, 1886.
85. Thomas, Edward, black, petit larceny (second offense), two years in Albany penitentiary, June 19, 1886.
86. Lester, Mordecai, white, assault with intent to commit rape, five years in Albany penitentiary, June 11, 1886.
87. Jones, Langdon, black, assault with intent to commit rape, five years in Albany penitentiary, June 14, 1886.
88. Ward, Charles K., black, petit larceny (second offense), three years in Albany penitentiary, June 14, 1886.
89. Colston, Thornton, black, violating section 5389 Revised Statutes United States. six months in Albany penitentiary, June 23, 1886.
90. Davenport, George F., white, forgery, one year in Albany penitentiary, June 24, 1886.
91. Brown, Ambrose M., white, false pretenses, three years in Albany penitentiary, June 28, 1886.
92. Brown, Ambrose M., white, embezzlement, one year in Albany penitentiary, June 28, 1886.

SURGEON'S REPORT.

WASHINGTON, D. C., *October 1, 1886.*

The Board of Surgeons Metropolitan Police beg leave to submit the following report of examinations of applicants for the service during the year ending June 30, 1886:

| Month. | Accepted. | Rejected. | Total. |
|----------------------|-----------|-----------|--------|
| July, 1885..... | 6 | 3 | 9 |
| August, 1885..... | 6 | 9 | 15 |
| September, 1885..... | 4 | 2 | 6 |
| October, 1885..... | 4 | 4 | 8 |
| November, 1885..... | 5 | 2 | 7 |
| December, 1885..... | 5 | 2 | 7 |
| January, 1886..... | 3 | 7 | 10 |
| February, 1886..... | 5 | ..... | 5 |
| March, 1886..... | 3 | 1 | 4 |
| April, 1886..... | 3 | 2 | 5 |
| May, 1886..... | 4 | 5 | 9 |
| June, 1886..... | 2 | 4 | 6 |
| Total..... | 50 | 41 | 91 |

Respectfully,

C. H. A. KLEINSCHMIDT, M. D.,
Secretary Board of Surgeons Metropolitan Police, D. C.

SAMUEL H. WALKER,
Major and Superintendent Metropolitan Police, D. C.

SANITARY SERVICE.

DEPARTMENT OF METROPOLITAN POLICE,
 OFFICE OF SANITARY OFFICER,
Washington, D. C., September 1, 1886.

SIR: It will be seen by a comparison of the figures herewith, with those of the several annual reports, that the work done by this office last year is largely in excess of any previous year.

While many applicants for admission to the several hospitals have been refused on the ground of not being worthy, after an examination having been made by the physicians for the poor, the number of worthy cases are constantly increasing, and they are aug-

*At the time this report was made these cases were before the general term for review of the rulings of the criminal court, and sentences were suspended.

mented by a class of inebriates which this office is called upon to care for. The sending of persons of the latter class to the hospitals may afford but temporary relief, for they leave the hospital frequently before the alcoholic poison is out of their system.

Hence the necessity for an inebriate asylum; an institution where these cases can be confined against their will and placed under special medical treatment.

This institution could be made self-sustaining.

Useful employment could be found for these persons in making articles that would find ready sale in the markets, the proceeds from the sale of which articles, after deducting the cost of maintaining the institution, could be turned over to the families of those confined therein, thereby compelling them not only to support themselves but also to contribute to the support of their families. In addition to this, it would keep their minds employed and prevent, in a great measure, that craving for stimulants that a life of idleness would naturally cause.

While on the subject of reformatorys, I would respectfully call your attention to the great need of an institution where colored girls can be placed under restraint and prevented from leading lives of vice. Cases of this character are frequently brought to the notice of this office, but as there is no place where colored girls can be placed, nothing can be done for them. In the House of Good Shepherd and House of Mercy white girls only are cared for.

TRANSPORTATION OF THE POOR.

This office is charged with furnishing transportation to worthy indigent persons found in the District without means to reach their homes. No money disbursed affords more relief than that appropriated for this purpose. Persons coming here looking for positions, who are disappointed, and others having business to transact with the Departments, among them many old soldiers looking for pensions, who remain here until their funds are exhausted, are unable to reach their homes unless furnished transportation from this fund.

This is cheaper than to have them become a charge on the community. I therefore recommend that \$4,000 be appropriated for this purpose.

AMBULANCE SERVICE.

In referring to the work of the police ambulance I take pleasure in saying that every call made upon it, either by day or night, has been promptly responded to. The driver has performed his duties faithfully and well.

The hospital work of this office is increasing to such an extent that one ambulance is insufficient to perform the work, and if it were not for the patrol wagons of the 1st and 6th precincts, we would be helpless.

In consideration of the fact that the patrol wagons cannot always be depended upon, by reason of their being engaged in their legitimate work, I would therefore respectfully recommend that another ambulance be provided for the use of this office.

I would call your attention to the meager salary paid the ambulance driver for the duty he performs. His is a place not only of responsibility, but one that requires experience, in order that the work may be properly done. I would therefore recommend that it be fixed at not less than sixty dollars per month.

The thanks of this department are due to the surgeons of police, the physicians to the poor, and the surgeons of the various hospitals for kind and courteous treatment extended and the prompt manner in which they have responded to all requests and received all cases sent them.

Very respectfully,

D. H. TEEPLE,
Sanitary Officer, Metropolitan Police.

SAMUEL H. WALKER,
Major and Superintendent Metropolitan Police.

TABLE SHOWING DISPOSITION OF SICK AND DESTITUTE PERSONS.

| | |
|-----------------------------------|-----|
| Sent to Freedmen's Hospital | 873 |
| Washington Asylum Hospital | 236 |
| Providence Hospital | 370 |
| Garfield Hospital | 44 |
| Columbia Hospital | 24 |
| Homoeopathic Hospital | 2 |
| Children's Hospital | 23 |

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| | |
|--|--------------|
| Sent to Government Hospital for the Insane..... | 148 |
| Alms-house..... | 166 |
| St. Ann's Indian Asylum..... | 8 |
| House of Good Shepherd..... | 2 |
| Washington City Orphan Asylum..... | 3 |
| Convent Orphan Home..... | 2 |
| National Christian Association..... | 14 |
| Little Sisters of the Poor..... | 1 |
| Detention Dispensary..... | 9 |
| Orphan Home..... | 1 |
| Six persons removed from police court to work-house..... | 3 |
| Six persons removed from hospitals and homes to points for transportation..... | 36 |
| Six and injured persons taken to their homes..... | 86 |
| Insane persons taken from houses to stations..... | 1 |
| Inebriated persons taken to stations..... | 7 |
| Witnesses taken from first to second precinct and returned..... | 5 |
| Children taken from their homes to police court..... | 2 |
| Dead bodies removed to stations..... | 10 |
| Total..... | 2,076 |

Table showing the ages of persons sent to hospitals, &c.

| | Under 10 years. | Between 10 and 15 years. | Between 15 and 20 years. | Between 20 and 25 years. | Between 25 and 30 years. | Between 30 and 40 years. | Between 40 and 50 years. | Between 50 and 60 years. | Over 60 years. | Total. |
|-----------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------|--------------|
| Males, white..... | 17 | 7 | 42 | 79 | 73 | 181 | 170 | 156 | 111 | 836 |
| Females, white..... | 18 | 9 | 21 | 43 | 54 | 68 | 55 | 32 | 52 | 352 |
| Males, colored..... | 24 | 14 | 71 | 74 | 61 | 78 | 55 | 61 | 57 | 495 |
| Females, colored..... | 18 | 17 | 101 | 75 | 55 | 40 | 24 | 30 | 33 | 393 |
| Total..... | 77 | 47 | 235 | 271 | 243 | 367 | 304 | 279 | 253 | 2,076 |

Table showing occupations of persons sent to hospitals, &c.

| Occupation. | No. | Occupation. | No. | Occupation. | No. |
|---------------------|-----|---------------------|-----|--------------------|--------------|
| Actors..... | 1 | Farmers..... | 33 | Plasterers..... | 4 |
| Agents..... | 2 | Firemen..... | 5 | Porters..... | 4 |
| Auctioneers..... | 4 | Feed-dealer..... | 1 | Policeman..... | 1 |
| Bakers..... | 20 | Folder..... | 1 | Painters..... | 12 |
| Barbers..... | 8 | Florists..... | 2 | Prostitutes..... | 35 |
| Bar-tenders..... | 4 | Gardners..... | 11 | Pavers..... | 3 |
| Blacksmiths..... | 8 | Hatter..... | 1 | Paper-hanger..... | 1 |
| Book-keepers..... | 7 | Hostlers..... | 13 | Reporters..... | 7 |
| Brewers..... | 3 | Housekeepers..... | 77 | Sailors..... | 22 |
| Boilermakers..... | 3 | Hucksters..... | 2 | Saddlers..... | 2 |
| Bricklayers..... | 11 | Inventor..... | 1 | Seamstresses..... | 15 |
| Brakemen..... | 2 | Laborers..... | 545 | Soldiers..... | 2 |
| Butchers..... | 15 | Lawyers..... | 7 | Stone-cutters..... | 2 |
| Cabinetmakers..... | 3 | Lithographer..... | 1 | Stone-masons..... | 3 |
| Carpenters..... | 25 | Machinists..... | 9 | Servants..... | 363 |
| Cigar-makers..... | 6 | Messengers..... | 4 | Tailors..... | 16 |
| Clerks..... | 59 | Miners..... | 8 | Teachers..... | 2 |
| Coachmen..... | 3 | Molders..... | 3 | Tinners..... | 9 |
| Conductors..... | 1 | Merchant..... | 1 | Tinkers..... | 8 |
| Coach-trimmers..... | 2 | Musicians..... | 4 | Unknown..... | 13 |
| Cooks..... | 26 | No occupations..... | 500 | Upholsterers..... | 6 |
| Cooper..... | 1 | Nurses..... | 5 | Waiters..... | 21 |
| Dress-makers..... | 4 | Optician..... | 1 | Watchmen..... | 7 |
| Draftsman..... | 1 | Painters..... | 32 | | |
| Druggists..... | 4 | Peddlers..... | 6 | Total..... | 2,076 |
| Dyer..... | 1 | Physicians..... | 9 | | |
| Engineers..... | 7 | Photographer..... | 1 | | |
| Expressman..... | 1 | | | | |

Table showing nativity of persons.

| Country. | No. | Country. | No. | Country. | No. |
|-----------------------------|-----|---------------|-----|------------------|-------|
| United States, white..... | 827 | Germany..... | 88 | Sweden..... | 3 |
| United States, colored..... | 882 | Hungary..... | 1 | Switzerland..... | 2 |
| Australia..... | 4 | Ireland..... | 193 | Turkey..... | 1 |
| Canada..... | 3 | Italy..... | 7 | Unknown..... | 1 |
| Denmark..... | 1 | Poland..... | 1 | | |
| England..... | 32 | Russia..... | 5 | Total | 2,076 |
| France..... | 10 | Scotland..... | 9 | | |

Residence of persons provided for within the several institutions of the District of Columbia for the fiscal year, 1886.

| Residence when at home. | No. | Residence when at home. | No. | Residence when at home. | No. |
|---------------------------|-------|-------------------------|-----|-------------------------|-------|
| Alabama..... | 1 | Maine..... | 1 | Ohio..... | 7 |
| Arkansas..... | 3 | Maryland..... | 82 | Pennsylvania..... | 34 |
| Connecticut..... | 4 | Massachusetts..... | 6 | South Carolina..... | 2 |
| District of Columbia..... | 1,489 | Michigan..... | 1 | Vermont..... | 1 |
| Florida..... | 7 | Minnesota..... | 2 | Virginia..... | 111 |
| Illinois..... | 8 | Mississippi..... | 1 | West Virginia..... | 12 |
| Indiana..... | 9 | Missouri..... | 5 | Unknown..... | 14 |
| Kansas..... | 12 | New Jersey..... | 4 | Non-residents..... | 213 |
| Kentucky..... | 7 | New York..... | 33 | | |
| Louisiana..... | 3 | North Carolina..... | 4 | Total | 2,076 |

Places to which transportation was furnished.

| | | | | | |
|--------------------------|-----|----------------------------|----|---------------------------------|-----|
| Alexandria, Va..... | 2 | Grafton, W. Va..... | 6 | Philadelphia, Pa..... | 88 |
| Annapolis, Md..... | 1 | Gordonsville, Va..... | 1 | Pittsburgh, Pa..... | 15 |
| Ashville, N. C..... | 1 | Havre de Grace, Md..... | 2 | Purcellville, Va..... | 2 |
| Beaumont, Va..... | 2 | Harrisburg, Pa..... | 8 | Piedmont, W. Va..... | 1 |
| Bay City, Mich..... | 1 | Hagerstown, Md..... | 4 | Quantico, Va..... | 3 |
| Baltimore, Md..... | 193 | Harper's Ferry, W. Va..... | 3 | Rectortown, Va..... | 1 |
| Brandywine, Md..... | 2 | Hartford, Conn..... | 1 | Richmond, Va..... | 21 |
| Brush River, Md..... | 1 | Jersey City, N. J..... | 3 | Rockwood, Pa..... | 1 |
| Cumberland, Md..... | 21 | Keedysville, Md..... | 1 | Reeves, Md..... | 1 |
| Chicago, Ill..... | 4 | Lynchburg, Va..... | 8 | Rockville, Md..... | 2 |
| Cincinnati, Ohio..... | 20 | Laurel, Md..... | 1 | Strasburg, Va..... | 2 |
| Chester, Pa..... | 2 | Leonardtown, Md..... | 2 | Shenandoah Junction, W. Va..... | 1 |
| Charlottesville, Va..... | 5 | McKeesport, Pa..... | 1 | Scranton, Pa..... | 1 |
| Chilpeper, Va..... | 2 | Mobile, Ala..... | 1 | Somerset, Va..... | 1 |
| Clarksburg, W. Va..... | 2 | Mount Joy, Pa..... | 1 | Sir John's Run, W. Va..... | 3 |
| Danville, Va..... | 2 | Meads ville, Pa..... | 1 | Saint Louis, Mo..... | 5 |
| Deleplane, Va..... | 1 | Manassas, Va..... | 1 | Savannah, Ga..... | 1 |
| Elmira, N. Y..... | 1 | Montgomery, Ala..... | 1 | Trenton, N. J..... | 3 |
| Elizabeth, N. J..... | 1 | Mount Vernon, Ohio..... | 1 | Weaverton, Va..... | 2 |
| Ellicott City, Md..... | 2 | Mansfield, Ohio..... | 1 | Wheeling, W. Va..... | 2 |
| Fortress Monroe, Va..... | 13 | Martinsburg, W. Va..... | 2 | Wilmington, Del..... | 4 |
| Fredericksburg, Va..... | 14 | New York..... | 25 | Winchester, Va..... | 2 |
| Forest Glen, Md..... | 1 | Norfolk, Va..... | 31 | Weaverton, Md..... | 2 |
| Frederick, Md..... | 4 | Newark, N. J..... | 3 | | |
| Fort Madison, Iowa..... | 1 | New Cumberland, Pa..... | 1 | Total..... | 572 |

INDIGENTS—WHERE SENT AND WHY.

| | |
|---|-----|
| Residents—sent to their friends | 41 |
| places of employment | 7 |
| Non-residents—ex-soldiers sent to Hampton Home | 13 |
| looking for admission to regular and volunteer homes, sent to friends | 14 |
| ex-sailors sent to Naval Asylum | 4 |
| looking for pensions, &c., sent to friends | 69 |
| Government employment, sent to friends | 27 |
| “cranks” sent to their friends | 19 |
| convalescent sent to friends | 86 |
| looking for private employment, sent to friends | 50 |
| came here on way to homes and friends, assisted on their way | 197 |
| sent to their homes by order of the District Commissioners | 13 |
| discharged from Government employment, sent home | 5 |
| suspicious characters sent to friends | 12 |
| looking for relatives | 15 |
| Total | 572 |

FUGITIVES FROM JUSTICE.

For the information of other cities.

John T. Clark, embezzlement.
 Edgar Denison, forgery.
 Charles Crane, *alias* Kelley, larceny.
 John C. Jenesen, larceny.
 Michael McKay, embezzlement.
 Eli Brown, false pretenses.
 Ed. A. Williams, false pretenses.
 Frank Burch, larceny.
 Albert Brook, forgery.
 Ed. McRae, larceny.
 William Woodson, larceny.
 Frank Murray, larceny.
 Frank Owens, larceny.
 William Vosberg, larceny.
 Herman Berg, larceny.
 Henry Hirsh, larceny.
 Victor Clairmont, housebreaking.
 William Wheat, larceny.
 Charles Smith, *alias* Filmore, larceny.

Charles W. Jackson, housebreaking.
 John Kaiser, larceny.
 Adam Schalader, forgery.
 Benjamin C. Kealing, forgery.
 Ed. Linthecum, larceny.
 Solomon Kaufman, larceny.
 Charles Sedgwick, forgery.
 John Price, *alias* Parks, larceny.
 John W. Bramer, housebreaking.
 Patrick Dempsey, housebreaking.
 Charles E. Rhodes, larceny.
 Henry Dillon, larceny.
 William B. Taylor, embezzlement.
 Jenkins A. Fitzgerald, false pretenses.
 Charles Bryan, assaulting an officer and false pretenses.
 Benjamin Bryan, assault with intent to kill.
 William Hooper, larceny from United States.

PERSONAL PROPERTY ON HAND JUNE 30, 1886.

Headquarters.

8 boxes axle-grease.
 3 arm rests.
 12 awnings, window.
 1 ash-pan.
 16 dozen blacking-brushes.
 10 blacking dyes.
 61 dozen badge brushes.
 14 dozen blacking, shoe.
 1 dozen bed spreads.
 7 brushing cloths.
 2 brushes, floor.
 7 brushes, hair.
 6 brushes, combing.
 3 brushes, whitewash.
 2 brushes, dust.
 Blankets, lot of different kinds.
 389 badges.
 137 badge chains.
 4 belts.
 562 batons, hickory.
 27 batons, rosewood.
 7 book-cases.
 4 book-stands.
 1 set badge dies.
 1 set button dies.
 1 bedstead.
 1 bed and bedding.
 13 buckets, water.
 23 volumes books, encyclopedia.
 30 volumes United States Revised Statutes.
 2 volumes Brightley's Digest.
 1 volume Common Law (Washburn).
 1 volume Virginia Revenue Laws.
 1 volume books, Trial of Wirz.
 1 volume books, Index to Laws of the United States.
 1 volume books, Reports of the Commissioners of the District of Columbia.
 1 volume books, Reports of Health Officer.
 1 volume books, Commission to revise the laws of the District of Columbia.

2 floor brushes, hair.
 8 floor mats.
 5 file cases.
 56 file-holders.
 4 hat-racks.
 4 pairs handcuffs.
 1 pan harness soap.
 4 packages insect powder.
 20 inkstands.
 10 quarts ink.
 1 lounge.
 10 dozen lye, concentrated.
 2 gross matches.
 10 quarts mucilage.
 2 mop-handles.
 180 manuals.
 6 mucilage cups.
 2 mirrors.
 1 map-stand, &c.
 1 mosquito net.
 91 volumes newspaper files.
 8 volumes newspaper files (new).
 3 office stamps.
 1 linoleum floor covering.
 18 packages polish, stove.
 2 pigeon-hole boxes.
 8 reams paper, foolscap.
 4 reams paper, letter.
 8 reams paper, note.
 1 ream paper, bill.
 1 ream paper, legal-cap.
 10 reams paper, plain white.
 8 dozen sheets blotters.
 8 paper weights.
 4 dozen pen-holders.
 8 pen-racks.
 24 gross pens.
 14 dozen pencils, lead.
 1 dozen pencils, slate.
 3 dozen pencils, red and blue.
 2 pictures.

| | |
|--|----------------------------|
| 1 volume books, Revised Code of the Corporation of Washington. | 1 photograph cabinet. |
| 1 volume books, Laws of the Corporation of Washington. | 3 dozen pillow slips. |
| 2 dozen bed sheets. | Polish, Whitehand's. |
| 1 basin, tin. | 456 records. |
| 1 bottle bed-bug poison. | 31 records (new). |
| 5 dozen brooms, whisk. | 1 gross rubber bands. |
| 17 brooms, floor. | 1 rubber ruler. |
| 1 dozen cell locks. | 1 sofa. |
| 2 coal shovels. | 9 sponge cups. |
| 2 dozen cups, office. | 1 screen. |
| 8 cups, cell. | 14 spittoons. |
| 10 chamois skins. | 2 safes. |
| 7 boxes cartridges, Colt's pistol. | 2 stoves. |
| 6 cartridges, M. and H. pistol. | 3 dozen soap, toilet. |
| 7 chairs, revolving. | 4 soap dishes. |
| 16 chairs, cushioned arm. | 3 slates. |
| 24 chairs, wooden, arm. | 5 sponges. |
| 1 chair, high. | 1 stepladder. |
| 3 clocks. | 2 stable brooms. |
| 6 carpets. | 120 boxes soap, brown. |
| 1 call bell. | 19 packages stove polish. |
| 11 curtains, window. | 8 dozen tablets. |
| 5 coal-hods. | 600 tags. |
| 1 case, large, for stationery. | 7 tables. |
| 2 copying presses. | 1 type-writer and desk. |
| 3½ dozen combs. | 1 dozen towels, hand. |
| 17 boxes castroline. | 1 dozen twine, wrapping. |
| 3 dusters, feather. | 4 wardrobes. |
| 15 desks. | 3 water-coolers. |
| 10 directories of different cities. | 4 washstands. |
| Envelopes, lot of. | 4 wash-bowls and pitchers. |
| | 6 waste-baskets. |
| | 20 pounds whiting. |

Unserviceable property.

| | |
|--------------|--|
| 10 bridles. | 1 water-cooler. |
| 3 bedsteads. | Lot of old police belts, batons, pistol-holders, pouches, &c.; lot of old directories. |
| 1 chair. | U. S. property, 1 case revolvers. |
| 4 halters. | |
| 17 saddles | |
| 1 table. | |

FIRST PRECINCT.

| | |
|--------------------------|---------------------------------|
| 28 batons, regulation. | 3 coal-hods. |
| 29 blankets, pairs. | 1 coal-shovel. |
| 1 book-case. | 2 desks. |
| 6 brushes, blacking. | 2 handcuffs (pairs). |
| 4 brushes, badge. | 50 hose, rubber (feet). |
| 3 brushes, clothes. | 3 inkstands. |
| 2 brushes, dust. | 1 ink bottle. |
| 4 brushes, hair. | 1 insect-powder bellows. |
| 1 brush, whitewash | 1 ladder, step. |
| 1 brush, wall. | 7 locks, cell. |
| 6 brooms, floor. | 1 matting, for stairs and hall. |
| 12 brooms, whisk. | 6 mops, floor. |
| 2 water-buckets. | 27 mattresses. |
| 1 bedstead, wooden. | 5 mats, door. |
| 25 bedsteads, iron. | 5 mirrors. |
| 3 carpets. | 20 oil-cloth (yards). |
| 1 clock. | 1 pan, dust. |
| 3 combs, hair. | 3 pen-racks. |
| 31 chairs. | 1 pistol case. |
| 6 cups, prison. | 34 pillows, feather. |
| 5 cups, drinking. | 50 pillow cases. |
| 20 coal, furnace (tons). | 1 ruler, rubber. |
| 4 coal, chestnut (tons). | 2 sponge cups. |

2 slates.
 57 sheets, bed.
 30 spreads, white.
 16 spreads, colored.
 3 stoves and pipes.
 10 spittoons, iron.
 6 spittoons, stone.
 16 spittoons, gum.
 1 stretcher.
 4 soap, common bars.
 7 soap, toilet cakes.
 1 table, office.
 2 tables, sitting room.
 1 table, lieutenant's room.

2 ambulances, single.
 1 ambulance, double.
 1 broom, stable.
 2 horse brushes.
 4 blankets.
 2 blankets for ambulance.
 2 buckets.
 2 currycombs.
 1 chamois skin.
 1 duster, feather.
 1 fork, stable.
 5 horses.
 10 hose, rubber (feet).

10 batons, rosewood.
 1 bedstead, double.
 20 bedsteads, single.
 38 bedspreads.
 22 blankets.
 1 book-case.
 1 broom, floor.
 4 brooms, whisk.
 16 boxes blacking.
 2 brushes, clothes.
 3 brushes, hair.
 1 brush, wall.
 3 brushes, shoe.
 6 brushes, badge.
 3 carpets, Brussels.
 2 chairs, revolving.
 18 chairs, cane-seat.
 10 chairs, wooden.
 2 clocks.
 5 combs.
 1 cooler, water.
 13 coal, tons.
 2 coal-hods.
 1 City Directory.
 27 Colt's revolvers.
 20 cartridge-boxes and belts.
 1 desk, writing.
 1 drop-light.
 1 dust-brush.
 2 dust-pans.
 3 floor-mats.
 4 file-holders.
 1 hatchet.
 1 hospital stretcher.
 1 lantern.
 8 locks and keys for cells.
 1 lounge.

32 towels.
 1 telephone instrument.
 5 wardrobes, double.
 3 waste baskets.
 2 wood, S. and S. (cords).
 1 water-cooler.
 1 set of books in use.
 Lot of old stationery, &c.
 Lot of old records.
 Cartridges for police revolvers.
 United States property: Army revolvers,
 holsters, belts and plates (37 each), and
 550 rounds of cartridges.

Stable.

5 halters.
 2 harness, single.
 3 harness, double.
 1/2 harness, soap-box.
 1 jack.
 1 Maria wagon.
 2 mattresses for ambulance.
 1 scale, platform.
 1 sponge.
 2 stretchers for ambulance.
 2 whips.
 Feed, &c.

SECOND PRECINCT.

1 map of District of Columbia.
 1 matting, stair.
 14 mattresses, hair.
 7 mattresses, shuck.
 3 mirrors.
 2 mops, floor.
 1 mop-handle.
 11 pillows, hair.
 11 pillows, feather.
 62 pillow-cases.
 1 rogue's picture-case.
 1 rogue's photograph-album.
 70 sheets.
 1 shovel.
 2 slates.
 1 set of hand-hose.
 2 stoves.
 12 spittoons.
 23 stair-plates.
 1 step-ladder.
 1 telephone and fixtures.
 1 table.
 31 towels.
 4 tin cups.
 1 United States Revised Statutes for Dis-
 trict of Columbia.
 4 wardrobes.
 1 Webb's Digest.
 2 waste-baskets.
 1 whitewash brush.
 22 window shades.
 1 washstand.
 1 wash-bowl and pitcher.
 1/2 wood (cord).
 Record-books, stationery, old record-books,
 &c.
 23 United States revolvers.

Unserviceable.

9 bedspreads.
14 cell locks and keys.
9 chairs, wooden.

1 stove.
1 table.

THIRD PRECINCT.

1 arm rest.
6 blacking brushes.
6 blacking dips.
4 badge brushes.
47 blankets.
3 bedsteads, single.
9 bedsteads, double.
6 brooms, whisk.
4 brooms.
3 buckets.
2 book cases.
14 books in use.
3 carpets.
12 curtains, window.
2 coal scuttles.
16 cartridge boxes.
3 cap boxes.
4 cell or prison cups.
20 chairs.
2 clothes brushes.
1 coal sieve.
20 dress batons.
2 dust brushes.
2 door rugs.
2 floor mops.
2 handcuffs, prison.
48 feet hand-hose.
13 hand towels.
2 hair brushes.
2 hair combs.

2 inkstands.
3 looking-glasses.
1 lounge.
1 map of Georgetown.
20 mattresses.
20 navy revolvers.
2 office desks.
1 office clock.
2 paper files.
57 pillar cases.
29 pillars.
2 pen-racks.
20 pistol holsters.
1 pistol rack-case.
1 rubber ruler.
15 rollers.
2 slates.
18 spittoons.
69 spreads.
2 sponge cups.
1 sprinkling can.
1 stepladder.
3 stoves.
1 stretcher.
1 wardrobe.
2 waste baskets.
2 tables.
1 telephone instrument.
25 United States revolvers.

Lot of insect exterminating powder; lot of toilet articles, blacking, soap, &c.; lot of stationery, pens, ink, paper, pencils, writing paper, envelopes, rubber bands, mucilage, official blanks.

Large number of official books filled up, all in good condition; one copy United States Statutes relating to the District.

FOURTH PRECINCT.

1 stretcher.
47 blankets.
13 double bedsteads.
6 carpets.
25 cartridge boxes.
18 dress batons.
1 pistol-case.
25 pistol.
1 rake.
1 rug.
4 tables.
1 furnace.
Garden hose.
2 desks.
1 telephone.
2 waste-paper baskets.
Books, stationery, &c.
1 feather duster.
20 stair plates.
2 stoves.
1 clock.

7 tons coal.
1 office chair.
1 shovel.
2 coal hods.
6 window curtains.
70 pillow cases.
2 brooms.
35 chairs.
22 cuspidores.
1 trestle and board.
79 bed spreads.
27 mattresses.
26 pistol holsters.
25 pistol belts.
34 pillows.
1 musket rack.
1 hoe.
1 lounge.
3 wardrobes.
1 stepladder.
1 lantern.

FOURTH PRECINCT—continued.

1 book-case.
1 water cooler.
6 door mats.
2 buckets.
31 towels.
9 tin cups.

Brushes, soap, &c.
 $\frac{1}{2}$ cord wood.
3 looking-glasses.
71 sheets.
6 whisk brooms.
30 United States revolvers.

Unserviceable.

1 feather duster.
1 water cooler.
1 door mat.
2 coal hods.
8 sheets.
5 towels.
7 whisk brooms.
9 tin cups.

1 window brush.
1 office chair.
2 shovels.
2 curtains.
30 pillow cases.
6 brooms.
5 chairs.
1 cuspidor.

FIFTH PRECINCT.

1 axe.
29 batons, rosewood.
27 bedsteads.
1 bench.
40 blankets, double.
10 buckets.
1 broom, hickory.
16 brooms, floor.
10 brooms, whisk.
82 boxes blacking.
1 brush, clothes.
23 brushes, blacking.
7 brushes, hair.
3 brushes, dust.
1 brush, wall.
2 brushes, horse.
3 brushes, badge.
3 brushes, whitewash.
35 belts.
3 bookcases.
40 lbs. bran.
1 cooling board.
6 carpets.
1 bar castile soap.
6 boxes concentrated lye.
13 cell cups.
3 cakes camphor.
12 cups, tin.
9 combs.
2 clocks.
44 chairs.
1 coalhod.
1 copper kettle.
40 coal (tons).
1 comb, curry.
4 dusters, leather.
6 dips, blacking.
4 desks.
5 file holders.
1 set harness.
40 feet hose.
2 pair handcuffs.
2 horses.
1 bale hay.
1 bottle insect poison.
1 lantern.
9 locks and keys for cell.
29 mattresses.
4 soap dishes.

6 mop handles.
2 gross matches.
11 mops, floor.
5 mirrors.
5 mats, door.
1 medical chest and contents.
2 lbs. nails.
2 bushel oats.
 $1\frac{1}{2}$ gallon oil, castor.
 $\frac{1}{2}$ gallon oil, lard.
1 box polish (Whitham's),
92 pillow cases.
44 pillows.
2 pans, dust.
1 pitchfork.
300 feet rope.
2 rugs.
1 register and paper patrol service.
37 revolvers and equipments, army.
1 revolver case.
1 reel.
 $3\frac{1}{2}$ dozen soap, toilet.
 $8\frac{1}{2}$ bars soap, common.
1 tub soap, harness.
30 spittoons.
2 stoves and pipe.
1 stepladder.
2 stretchers.
5 sponges.
17 spreads (colored).
91 spreads (white).
128 sheets.
3 shovels, scoop.
1 bale straw.
2 tables.
2 telephone instruments.
48 towels, roller.
14 towels, hand.
1 gal. turpentine.
1 lb. whiting.
5 wardrobes.
1 cord wood, kindling.
1 water cooler.
1 wagon, patrol.
1 whip.
Lot of stationery, record books, old record
books, &c.
33 U. S. revolvers.

Unserviceable.

| | |
|-------------------|----------------------|
| 1 bedstead. | 1 mattress. |
| 2 pair handcuffs. | 1 lot matting. |
| 50 feet hose. | 10 spreads, colored. |
| 4 lanterns. | |

SIXTH PRECINCT.

| | |
|---------------------------------|------------------------------------|
| 4 floor carpets. | 1 step-ladder. |
| 1 stair carpet. | 1 dissecting table. |
| 1 hall carpet. | 1 hose. |
| 7 wardrobes. | 1 stretcher. |
| 5 desks. | 1 water cooler. |
| 45 chairs. | 1 feather duster. |
| 1 lounge. | 2 lanterns. |
| 2 book-cases. | 4 buckets. |
| 24 beds, with bedding complete. | 12 mops. |
| 1 pistol case. | 6 prison cups. |
| 3 revolving chairs. | 4 drinking cups. |
| 3 mirrors. | 4 bars soap. |
| 1 clock. | 11 cakes toilet soap. |
| 4 rugs. | 3 doz. shoe blacking. |
| 2 tables. | 6 shoe brushes. |
| 24 curtains. | 6 blacking dips. |
| 6 stoves. | 1 pair handcuffs. |
| 24 spittoons. | 15 feet iron railing. |
| 2 waste baskets. | 2 pen racks. |
| 26 roller towels. | 3 inkstands. |
| 8 hand towels. | 2 sponge glasses. |
| 5 tons coal. | 2 mucilage cups. |
| 3 coal-hods. | 2 erasers. |
| 6 floor brooms. | 1 box pens. |
| 2 hair brooms. | 12 lead pencils. |
| 1 whisk broom. | 6 penholders. |
| 1 clothes brush. | $\frac{1}{2}$ ream foolscap paper. |
| 1 coal shovel. | $\frac{1}{2}$ ream letter paper. |
| 1 stove shovel. | $\frac{1}{4}$ ream note paper. |
| 1 coal sieve. | 2 packages envelopes. |
| 1 sprinkling can. | 28 U. S. revolvers. |

SEVENTH PRECINCT.

| | |
|-------------------------------|------------------------|
| 20 batons, regulation. | 1 harness for wagon. |
| 2 baskets, waste. | 1 horse for wagon. |
| 5 brooms, floor. | 3 inkstands. |
| 6 brooms, whisk. | 1 lounge. |
| 15 bedsteads, double. | 1 lamp lighting rod. |
| 3 bedsteads, single. | 34 mattresses. |
| 60 blankets, double. | 4 mirrors. |
| 2 blankets for horse. | 1 mop handle. |
| 4 buckets. | 5 mops. |
| 1 book-case. | 2 pen racks. |
| 1 carpet, very much worn. | 65 pillows. |
| 38 chairs. | 80 pillow slips. |
| 3 chairs, revolving. | 4 paper weights. |
| 1 case for pistols. | 1 pitchfork. |
| 28 Colt's army revolvers. | 2 rubber rules. |
| 700 cartridges for same. | 85 sheets. |
| 28 cartridge boxes and belts. | 50 spreads for beds. |
| 4 coal-hods. | 3 sponge cups. |
| 1 coal shovel. | 1 shears for paper. |
| 7 coal, about 7 tons. | 2 slates. |
| 1 copy Revised Statutes. | 13 spittoons. |
| 1 clock. | 2 stove shovels. |
| 7 combs. | 4 stoves and fixtures. |

1 curry-comb and brush.
 5 cell locks.
 2 cell cups.
 1 city directory.
 3 desks.
 2 dust pans.
 1 dust brush.
 1 drop light and fixtures.
 2 drinking cups.
 3 floor mats.
 8 file holders.
 1 feather duster.
 3 handcuffs, pairs.
 28 holsters for pistols.
 1 halter.

1 stretcher.
 6 tapers, six boxes.
 1 telephone.
 2 tables.
 50 towels.
 1 tin basin.
 1 wall brush.
 1 wood, cord.
 1 wagon, patrol.
 12 wardrobes.
 1 water cooler.
 10 window curtains.
 Police signal system, record-books, small lot
 of stationery, soaps, matches, &c.
 20 U. S. revolvers.

EIGHTH PRECINCT.

1 ax.
 13 bedsteads, iron, double.
 1 bedstead, iron, single.
 8 brushes, shoe.
 2 brushes, dust.
 2 brushes, wall.
 2 brushes, whitewash.
 4 brushes, clothes.
 4 brushes, badge.
 6 brushes, hair.
 2 book-cases.
 44 blankets, double.
 2 buckets, water.
 4 brooms, floor.
 6 brooms, whisk.
 1 books, set of,
 50 counterpanes, white and colored.
 50 cases, pillow.
 4 combs, hair, in use.
 5 carpets, new, on floor.
 2 clocks.
 1 case, pistol.
 1 cup, tin.
 16 chairs, wood-seat, arm, oak.
 12 chairs, cane-seat, arm, walnut.
 10 chairs, plain wood.
 2 chairs, revolving.
 1 cooler, water.
 2 drums, iron, lodgers' room.
 1 droplight.
 1 furnace, old.
 1 hatchet.
 3 handcuffs, pairs.
 5 inkstands.
 1 lounge.

2 lanterns.
 1 lamp, student.
 4 mirrors.
 32 mattresses.
 5 oil-cloths, pieces.
 10 pillows, hair.
 25 pillows, feather.
 3 pen racks.
 6 prison cups.
 3 rulers.
 80 sheets, bed.
 3 stoves and pipe.
 2 stoves and pokers.
 3 slates, double.
 2 scuttles, coal.
 25 spittoons.
 2 tables, round.
 15 towels, hand.
 12 towels, roller.
 2 telephones.
 5 wardrobes, double.
 1 wardrobe, single.
 5 writing-desks.
 13 window shades.
 1 washstand.
 Lot of stationery, stoves, blacking, &c.
 28 batons, dress.

United States property.

33 Army revolvers.
 83 Army belts and plates.
 33 Army cartridge boxes.
 33 Army holsters.
 300 rounds of cartridges.

L.—REPORT OF THE BOARD OF TRUSTEES OF PUBLIC SCHOOLS OF THE DISTRICT OF COLUMBIA FOR THE SCHOOL YEAR ENDING JUNE 30, 1886.

To the Honorable the Commissioners of the District of Columbia :

We have the honor herewith to submit the report of the Board of Trustees of the Public Schools for the year ending June 30, 1886.

The statistics of attendance, accommodations, number of teachers employed, expenditures, and, indeed, of all matters relating to the organization, conduct and operation of the schools, are so fully and clearly presented in the reports to the Board of Superintendents Powell and Cook, that it has been deemed unnecessary in this connection to do more than adopt and append their reports.

URGENT NECESSITY OF LARGELY INCREASED SCHOOL-ROOM ACCOMMODATION.

The most serious disclosure made in these reports, and the one which, above all others, the board desires at this time to call to your attention, and, through you, to the consideration of Congress, is that of the startling inadequacy of the school-room accommodation afforded the children of this District.

In the first place, it is shown that the *basements* of eight of our public school buildings are, under the pressure of absolute necessity, crowded with children. No one of these basements was ever intended for any such purpose, and every one of them is wholly unfit for it. As stated by the superintendents, they are dark, damp and incapable of proper heating or proper ventilation—so dark that on many days in the year the schools must be dismissed because the children cannot see to read their lessons. No member of Congress would consent to the use of such rooms for his committee, or for any other purpose which would require him to pass the working hours of the day in them, and no member, we are confident, would be willing to condemn the immature bodies of little school children to conditions, sanitary and otherwise, so unfavorable.

But, in the second place, these reports show that, even after resort to these basements and to the thirty-nine unsuitable rented school-rooms, 9,120 children, or more than one-third of the entire attendance, were restricted to half-day schools last year, for the simple reason that the total seating capacity provided for the accommodation of pupils, these objectionable make-shifts included, left 4,560 children wholly unprovided for, and compelled the unseating of that many other pupils for one-half of each day throughout the school year in order that the first-named might not be wholly excluded from the benefit of the schools. And the statistics for the current year included in the two reports show that the number of children whose common-school opportunities are thus dwarfed and mutilated is now increased to 12,089.

The discouraging, not to say alarming, tendency of these unfortunate figures and facts is heightened when viewed in connection with the report of Superintendent Cook. That report shows that the entire school-life of nearly four-fifths of the colored children of this District comprises only the first four grades—the very grades in which resort to this half-day system has been compelled, as the only alternative against denying any educational opportunities whatever to thousands of the little applicants. In other words, mere failure to supply sufficient school rooms to

hold them is depriving a very large proportion of the children most dependent upon the public schools of *one-half of their whole school life*.

It will be observed that this unhappy result flows solely from the failure to supply adequate school-room accommodation. We have teachers enough for all the schools, and if we had as many school rooms as are needed, each of these twelve thousand children could receive the benefit of a full day's school without the employment of a single additional teacher or the expenditure of a single additional dollar for teachers' salaries. We occupy precisely the attitude, from a business standpoint, of an employer who finds it necessary to engage and pay the wages of a thousand skilled employ  s, but who receives the benefit of only half-days' labor from a third of their number because of his own refusal to provide working room for them all.

No intelligent or civilized community, entrusted with the management of its own affairs, would tolerate the condition of things here set forth, and no member of Congress, in either of its branches, it is confidently believed, would willingly be responsible for its continuance. It is for these reasons that we have deemed it proper to call attention plainly to the facts as they actually exist. Some appropriation is annually made for increasing our public-school accommodations, but such increase has failed to keep pace with the largely increased attendance of pupils, and in view of the actual situation, as presented in these reports of the superintendents, every consideration of humanity, public spirit, and practical business common sense would seem to call for such immediate and radical enlargement of those accommodations as the number of pupils now in attendance requires.

We have in actual attendance about five thousand pupils in excess of the seating capacity provided, the basements and rented school-rooms all included. Each teacher, with us, is intrusted with about fifty pupils; so that, retaining the basements and rented buildings, we actually need, at the present time, one hundred additional school-rooms. The attendance for the present year is nearly 10 per centum greater than that of last year, which in turn was perhaps correspondingly greater than that of the preceding year. At least fifteen new school buildings, with an average of ten school-rooms to each building, will be needed at the opening of the next school year to accommodate the children who will apply for admission, if the basements and rented buildings are vacated, as they ought to be, and unless, through the efforts of the Commissioners and the action of Congress, those buildings or their equivalent are provided, the little ones must continue to be crowded into places absolutely unfit for the purpose, and the half-day system will have to be extended into the fifth grade, and possibly into the sixth.

We earnestly and urgently present this most important matter to your attention, and through you to that of Congress, with the hope and request that no effort will be spared to secure speedy provision for this, the overshadowing necessity of the public schools at this time.

COLORED HIGH AND NORMAL SCHOOLS.

Your attention is also invited to the recommendation of Superintendent Cook, with reference to a new building for the Colored High School. The building at present used in part for the purposes of this school is unfortunate in its location, ill-adapted to the purpose, and is, moreover, needed to supply the wants of the section of the city in which it stands for schools of lower grade. A high-school building, comparing

favorably in advantages of location and appointments with the Washington High School, due regard, of course, being had to the comparative attendance, is needed by the colored youth of the District, and should be accorded them.

The announced withdrawal of the trustees of the Miner fund from the arrangement which has heretofore given us the Miner Normal School, referred to in the report of Superintendent Cook, also makes it necessary to include in the estimates for the ensuing year adequate provision for a Normal School for the Seventh and Eighth Divisions.

THE WASHINGTON HIGH SCHOOL.

Your attention is also invited to the imperative necessity of enlarging the Washington High School. As shown by the report of Superintendent Powell, the present High School building is crowded to its utmost capacity, and, with a largely increased attendance over that of last year in the schools of the eighth grade, it necessarily follows either that the capacity of that building *must be enlarged before the opening of the next school-year*, or that a large number of pupils entitled to admission there must be excluded for want of accommodation. The latter alternative is one which, in justice to the youth of the District and to the community, every effort, it is hoped, will be exerted to avert.

Respectfully submitted.

J. J. DARLINGTON,
JNO. R. FRANCIS,
A. H. WITMER,
Committee, Board of Trustees.

NOVEMBER 26, 1886.

To the President and Members of the Board of School Trustees of the District of Columbia:

GENTLEMEN: I herewith present a summary of statistics compiled from records in my office and from the report of Superintendent Cook, showing the various schools under your management in their proper relations respecting the teaching force, the attendance of pupils, the cost, and the accommodations afforded, for the school year ending June 30, 1886.

The facts given are arranged to show the most urgent present needs of the schools. To these your attention is respectfully asked. Such results as should be sought cannot be obtained in rooms so damp and ill-ventilated as to make it unsafe to stay in them, or so small and crowded that they are unwholesome as well as inconvenient, or so dark that school work cannot be done in them properly.

Washington Normal School.

| | |
|----------------------------------|------------|
| Number of teachers trained..... | 30 |
| Average attendance..... | 29 |
| Number of teachers employed..... | 2 |
| Average salary..... | \$1,139 75 |

Miner Normal School.

| | |
|--|------|
| Number of teachers trained..... | 20 |
| Average attendance..... | 19.5 |
| (This school is supported by the Miner Fund, but must be provided for by the District during the coming year.) | |

350 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Washington High School.

| | |
|---|----------|
| Number of pupils enrolled | 745 |
| Average enrollment | 688 |
| Average attendance | 662 |
| Percentage of attendance | 96.4 |
| Average number of tardinesses per month | 96 |
| Number of pupils dismissed | 2 |
| Number of teachers employed | 24 |
| Average salary paid | \$934 44 |
| Cost of tuition per pupil (estimated on the average enrollment) | \$32 60 |

Colored High School.

| | |
|---|----------|
| Number of pupils enrolled | 247 |
| Average enrollment | 208 |
| Average attendance | 193 |
| Percentage of attendance | 92.5 |
| Average number of tardinesses per month | 3.8 |
| Number of pupils dismissed | 0 |
| Number of teachers employed | 6 |
| Average salary paid | \$915 29 |
| Cost of tuition per pupil (estimated on the average enrollment) | \$26 40 |

Grammar and Primary Schools.

| | White. | Colored. | Total. |
|--|----------|----------|--------|
| Number of pupils enrolled | 19,921 | 11,393 | 31,314 |
| Average enrollment | 16,872 | 9,113 | 25,985 |
| Average attendance | 15,574 | 8,571 | 24,145 |
| Percentage of attendance | 92.3 | 94.0 | 92.9 |
| Average number of tardinesses per month | 1,983 | 390.6 | ..... |
| Number of pupils dismissed | 28 | 6 | 34 |
| Number of cases of corporal punishment | 32 | 210 | 242 |
| Number of teachers employed | 361 | 188 | 549 |
| Average salary paid | \$668 23 | \$586 94 | ..... |
| Average number of pupils to a teacher (estimated on average enrollment) | 46.7 | 48.4 | ..... |
| Cost of tuition per pupil (estimated on average enrollment) | \$14 29 | \$12 11 | ..... |
| Number of pupils enrolled in all schools (excluding Miner Normal School) | 20,696 | 11,640 | 32,336 |

SPECIAL TEACHERS.

| | | | |
|--|------------|------------|-------|
| Drawing | 1 | 1 | 2 |
| Music | 2 | 2 | 4 |
| Average salary paid: | | | |
| Drawing | \$679 00 | \$1,067 00 | ..... |
| Music | \$1,435 60 | \$776 00 | ..... |
| Average cost per pupil for special tuition (estimated on average enrollment) | \$0 21 | \$0 28 | ..... |

SUPERVISION.

The cost of supervision was:

| | |
|--|------------|
| One superintendent (white) | \$2,700 00 |
| One superintendent (colored) | 2,250 00 |
| Six supervising principals (white), each \$1,940 | 11,640 00 |
| Two supervising principals (colored), each \$1,940 | 3,880 00 |
| One clerk | 1,200 00 |
| One clerk (colored) | 800 00 |
| One messenger | 300 00 |
| One messenger (colored) | 200 00 |
| One clerk of committee on accounts | 300 00 |
| Total cost of supervision | 23,270 00 |
| Average cost of supervision per pupil (estimated on average enrollment) .. | 87 |

Summary.

| | |
|---|---------------|
| Total cost of instruction, including supervision..... | \$395, 694 15 |
| Whole number of pupils enrolled..... | 32, 336 |
| Average enrollment..... | 26, 911 |
| Average daily attendance..... | 25, 029 |
| Average cost of instruction, estimated on: | |
| 1. Whole enrollment..... | \$12 21 |
| 2. Average enrollment..... | \$14 70 |
| 3. Average daily attendance..... | \$15 81 |

Contingent Expenses.

| | |
|---|--------------|
| Total amount expended..... | \$19, 104 81 |
| Average amount per pupil (estimated on average enrollment)..... | 71 |

Fuel.

| | |
|----------------------------|--------------|
| Total amount expended..... | \$13, 474 89 |
|----------------------------|--------------|

Janitors.

| | |
|----------------------------|--------------|
| Total amount expended..... | \$29, 137 36 |
|----------------------------|--------------|

Average cost per pupil (including high and normal schools) for all expenses except repairs and permanent improvements:

| | |
|-------------------------------------|-------|
| 1. On whole enrollment..... | 14 36 |
| 2. On average enrollment..... | 17 25 |
| 3. On average daily attendance..... | 18 55 |

Accommodations.

| | White. | Colored. | Total. |
|------------------------------------|--------|----------|--------|
| Number of buildings owned..... | *41 | 22 | 63 |
| Number of buildings rented..... | 13 | 4 | 17 |
| Number of school rooms owned..... | *287 | 132 | 419 |
| Number of school rooms rented..... | 21 | 18 | 39 |

* Excluding white high school.

Many of these school rooms are unfit for use. Of those owned may be mentioned the basement rooms of the Twining, Amidon, Jefferson, Lincoln, Stevens, Miner, John F. Cook and Randall Schools. They are dark and damp, and cannot be ventilated or warmed properly. Schools occupying them in the winter season are forced to be dismissed many times because it is too dark for the children to work. The rented buildings are nearly all unfit for use, which goes without the saying, as they were not constructed for school purposes and are at best but makeshifts.

The total number of school rooms owned and rented (458) accommodated 21,663 pupils, but there were 26,223 pupils enrolled on an average throughout the school year, excluding those enrolled in the Washington High School.

There were therefore 4,560 pupils for whom there were no seats and 4,560 other pupils were compelled to give up their seats to them a half of each day, that is, there were 9,120 pupils on an average throughout the entire school year, who were attending half-day schools.

The condition of the schools for the current year is worse than was that of last year, because the additional demand for school-room because of the increase in the population of the city is much in excess of the additional supply. (The Addison Building, completed and occupied in February of last year, is included in the foregoing enumeration of build-

ings owned.) Four rooms have been added to the Stevens, two in the basement of the Addison and one in the basement of the Amidon. These, seven in number, are all that have been added to the number of rooms owned.

Eleven additional rooms have been rented. Yet so inadequate are the present accommodations that additional half-day schools have been found necessary.

There are now half-day schools as follows :

| | White. | | Colored. | |
|--------------------|-----------------|----------------|-----------------|----------------|
| | No. of schools. | No. of Pupils. | No. of schools. | No. of Pupils. |
| First grade | 43 | 2, 019 | 43 | 2, 659 |
| Second grade | 41 | 1, 907 | 28 | 1, 626 |
| Third grade | 37 | 1, 880 | 18 | 986 |
| Fourth grade | 13 | 623 | 7 | 389 |
| Total | 134 | 6, 429 | 96 | 5, 060 |

The Washington High School is now crowded to its utmost capacity and the schools that feed it, including four new eighth-grade schools, are all full. At least one hundred pupils more than the number now enrolled will seek admission to this school next September. Unless additional room be provided it will be found necessary either to refuse admission to scores who will be regularly graduated from the grammar schools at the close of the current year, or to adopt the half-day plan.

Respectfully,

W. B. POWELL.

WASHINGTON, D. C., *November 22, 1886.*

OFFICE OF SUPERINTENDENT PUBLIC SCHOOLS,
Washington, D. C., November 9, 1886.

To the Board of Trustees, Public Schools, D. C.:

GENTLEMEN: I respectfully submit my report of the schools of the seventh and eighth divisions, for the year ending June 30, 1886.

From the statistics are gathered the following facts:

The whole number of schools in the year was 161, or 12 more than in the previous year. They were classified as follows: First grade, 45; second grade, 33; third grade, 26; fourth grade, 17; fifth grade, 14; sixth grade, 9; seventh grade, 9; eighth grade, 6; high school, 1, and normal school, 1.

Two of the schools were closed during the year. School No. 5, grade No. 3, division No. 7, was closed by transferring the pupils to other schools of same grade, and the teacher to the charge of the second-grade training school. On account of the death of the teacher, school No. 9, grade No. 1, division No. 8, was closed May 1, by transferring the pupils to other schools.

The whole number of pupils enrolled, not including the enrollment in the normal school, was 10,138, which was 540 more than in the previous year. The per cent. of enrollment of the whole colored school population was 84, based on the census of 1880. Based on the estimated population, determined by the increase of population from 1870 to 1880, it was about 74.

The average number of pupils enrolled in the two cities was 8,191, which was 502 more than in 1884-'85. The average enrollment was 68 per cent. of the entire school population, based on the census of 1880, or 60 per cent. of the estimated population. The average number in daily attendance was 7,756, or 467 more than in the previous year.

The following table shows the number of pupils on the rolls the last day of each month and the average number of pupils enrolled each month; it also shows in each item the average number to the teacher:

[Normal school not included in this table.]

| Months. | Number of pupils on the rolls the last day of each month. | Average number to the teacher. | Average number of pupils enrolled in each month. | Average number to the teacher. |
|-----------------|---|--------------------------------|--|--------------------------------|
| September | 9,048 | 52 | 8,666 | 50 |
| October | 9,318 | 53 | 8,944 | 51 |
| November | 9,108 | 52 | 8,916 | 51 |
| December | 8,857 | 51 | 8,119 | 47 |
| January | 8,589 | 49 | 8,274 | 48 |
| February | 8,113 | 47 | 8,059 | 46 |
| March | 8,036 | 46 | 7,944 | 46 |
| April | 7,812 | 45 | 7,769 | 45 |
| May | 7,648 | 44 | 7,288 | 42 |
| June | 7,448 | 43 | 7,253 | 41 |

In October there were 9,318 pupils on the rolls the last day of the month, or more than in any other month of the school year.

The largest average enrollment was 8,944, in October. The least average enrollment was 7,253, in June, or 1,691 less than in October. This large difference is to be attributed to the adverse circumstances which require the withdrawal of older pupils, in the more favorable season for employment, in procuring the necessities of life. The average number of pupils to the teacher, on the average enrollment, varied monthly, from 53 in October to 43 in June.

The following table gives the number, per cent., and average age of boys and girls enrolled in each grade, October 30, 1885:

Sex, grade, number, per cent., and age of pupils, October 30, 1885.

MALES.

| Divisions, &c. | First year. | Second year. | Third year. | Fourth year. | Fifth year. | Sixth year. | Seventh year. | Eighth year. | High School. | Total. |
|-------------------|-------------|--------------|-------------|--------------|-------------|-------------|---------------|--------------|--------------|--------|
| Seventh Division: | | | | | | | | | | |
| Number | 554 | 364 | 302 | 205 | 141 | 70 | 39 | 25 | | |
| Percent | 32.6 | 21.4 | 17.8 | 12.0 | 8.3 | 4.1 | 2.3 | 1.5 | | |
| Average age | 8.2 | 9.7 | 10.9 | 11.8 | 14.5 | 13.6 | 14.6 | 15.8 | | |
| Eighth Division: | | | | | | | | | | |
| Number | 741 | 423 | 351 | 203 | 156 | 71 | 58 | 28 | | |
| Percent | 36.5 | 20.8 | 17.2 | 10.0 | 7.7 | 3.5 | 2.9 | 1.4 | | |
| Average age | 8.2 | 9.7 | 10.7 | 11.2 | 12.9 | 13.7 | 14.0 | 14.7 | | |
| Total | 1,295 | 787 | 653 | 408 | 297 | 141 | 97 | 53 | 35 | 3,768 |
| Percent | 3.44 | 20.9 | 17.3 | 10.8 | 7.9 | 3.8 | 2.6 | 1.4 | 0.9 | |
| Average age | 8.2 | 9.7 | 10.8 | 11.5 | 13.7 | 13.7 | 14.2 | 15.2 | 16.4 | |

354 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Sex, grade, number, per cent., and age of pupils, October 30, 1885—Continued.

FEMALES.

| Divisions, &c. | First year. | Second year. | Third year. | Fourth year. | Fifth year. | Sixth year. | Seventh year. | Eighth year. | High School. | Total. |
|--------------------------|-------------|--------------|-------------|--------------|-------------|-------------|---------------|--------------|--------------|--------|
| Seventh Division: | | | | | | | | | | |
| Number | 557 | 450 | 344 | 297 | 228 | 167 | 92 | 86 | ..... | ..... |
| Per cent. | 25.0 | 20.2 | 15.5 | 13.4 | 10.3 | 7.5 | 4.2 | 3.9 | ..... | ..... |
| Average age .. | 7.8 | 9.8 | 10.9 | 11.8 | 13.2 | 14.0 | 14.7 | 16.4 | ..... | ..... |
| Eighth Division: | | | | | | | | | | |
| Number | 856 | 483 | 434 | 328 | 242 | 167 | 193 | 79 | ..... | ..... |
| Per cent. | 31.8 | 17.9 | 16.1 | 12.2 | 9.0 | 6.2 | 3.8 | 3.0 | ..... | ..... |
| Average age .. | 7.0 | 10.0 | 10.8 | 12.0 | 12.8 | 13.6 | 14.5 | 15.1 | ..... | ..... |
| Total | 1,413 | 933 | 778 | 625 | 470 | 334 | 195 | 165 | 184 | 5,097 |
| Per cent. | 27.7 | 18.3 | 15.3 | 12.3 | 9.2 | 6.6 | 3.8 | 3.2 | 3.6 | ..... |
| Average age .. | 7.3 | 9.9 | 10.8 | 11.9 | 13.0 | 13.8 | 14.6 | 15.9 | 16.8 | ..... |
| Grand total | 2,708 | 1,720 | 1,431 | 1,033 | 767 | 475 | 292 | 218 | 219 | 8,863 |
| Per cent. | 30.5 | 19.4 | 16.2 | 11.6 | 8.6 | 5.4 | 3.3 | 2.5 | 2.5 | ..... |
| Average age .. | 7.7 | 9.8 | 10.8 | 11.8 | 13.2 | 13.7 | 14.4 | 15.7 | 16.8 | ..... |

Though the school age begins at six years it is readily inferred from the above statistics that many do not enter school until a later age. The table shows that the average age of pupils in the first grade was between seven and eight years; in the second grade, between nine and ten years; in the third grade, between ten and eleven years; in the fourth grade, between eleven and twelve years; in the fifth grade, between thirteen and fourteen years; in the sixth grade, between thirteen and fourteen years; in the seventh grade, between fourteen and fifteen years; in the eighth grade, between fifteen and sixteen years; and in the High School, between sixteen and seventeen years.

At the date given above almost four-fifths of the pupils enrolled were in the first four grades. It will be seen that the disparity in the enrollment of boys when compared with that of girls is very marked after the fourth grade.

The following table presents the entire and average enrollment of pupils, the number of pupils in daily attendance, each with per cent. of increase and the percentage of attendance, based on the average enrollment for the last twelve years, embracing the entire period since the consolidation of the separate board for these schools with the other boards of the District of Columbia into the present general board:

[Normal School not included in this table.]

| Years. | Whole number enrolled. | Per cent. of increase. | Average number enrolled. | Per cent. of increase. | Average number in daily attendance. | Per cent. of increase. | Per cent. of attendance. |
|---------------|------------------------|------------------------|--------------------------|------------------------|-------------------------------------|------------------------|--------------------------|
| 1874-75 | 5,489 | 3.95 | 4,057 | 4.23 | 3,924 | 5.76 | 96.6 |
| 1875-76 | 5,454 | ..... | 4,434 | 9.29 | 4,354 | 10.95 | 98.1 |
| 1876-77 | 5,954 | 9.16 | 4,841 | 9.17 | 4,749 | 9.07 | 98.1 |
| 1877-78 | 6,515 | 9.42 | 5,619 | 16.69 | 5,525 | 16.34 | 97.8 |
| 1878-79 | 7,731 | 18.66 | 6,285 | 11.25 | 6,128 | 10.91 | 97.6 |
| 1879-80 | 8,061 | 4.26 | 6,573 | 4.58 | 6,412 | 4.63 | 97.4 |
| 1880-81 | 8,146 | 1.05 | 6,567 | ..... | 6,342 | ..... | 96.6 |
| 1881-82 | 8,289 | 1.75 | 6,763 | 2.98 | 6,536 | 3.05 | 96.7 |
| 1882-83 | 8,710 | 5.07 | 7,070 | 4.53 | 6,815 | 4.26 | 96.2 |
| 1883-84 | 9,107 | 5.24 | 7,225 | 2.19 | 6,895 | 1.17 | 95.5 |
| 1884-85 | 9,598 | 4.70 | 7,689 | 6.42 | 7,287 | 5.68 | 94.9 |
| 1885-86 | 10,138 | 5.62 | 8,191 | 6.52 | 7,756 | 6.43 | 94.6 |

The increase in the entire enrollment in the period named is nearly 85 per cent. The average enrollment has been doubled. The average per cent. of attendance is 96.7.

The enrollment, entire and average, for the year 1885-'86, is considerably in excess of the average for the period and compares very favorably with that of other years.

There were 3,906 cases of tardiness during the year. The number of cases to every 100 of the average number of pupils enrolled was 47, which was 2 more than in the previous year.

POPULATION AND ACCOMMODATION.

These two divisions of the public schools of the District of Columbia embrace all the public colored schools of Washington and Georgetown.

The number of colored children between the ages of six and seventeen, inclusive, in these two cities was, according to the United States census of 1880, 11,938. The increase of this school population during the decade beginning with 1870 and ending with 1880 was about 28 per cent. Taking this increase as a basis it is thought safe to say that the number of colored children of school age is at present about 14,000.

The schools of these two divisions are located in 15 buildings, of which 11 are owned by the District of Columbia and 4 are rented. The number of rooms occupied by the schools is 127, and of these 18 are in the rented buildings. These rooms furnish in the aggregate sitting capacity for 6,977 children. By comparing the number of seats provided for pupils with the estimated number of children of school age, it will be seen that the latter is 7,023 in excess of the former, or in other words there are 7,023 more children than seats for them.

Sufficient light, freedom from dampness, proper means of ventilation, and such general fitness of room construction as are favorable to order are admitted to be important in the promotions and maintenance of those conditions, physical and mental, essential to the well-being and well-doing of both teachers and pupils. In some of the school rooms, the large absence of these conditions is very marked, particularly in the two basement rooms of the Lincoln building, and, though to a less extent, in the basement rooms of the Stevens, Minor, John F. Cook, and Randall buildings. Some of these rooms were diverted from the use for which they were intended to increase the accommodation. The sooner the provision of fit accommodation permits reversion to original uses the better, in every respect, for both teachers and pupils who, at present, are compelled to occupy them.

These decidedly objectionable rooms contain quite a large number of the sittings, which, if deducted from the aggregate, would show need of yet greater provision than that indicated by the difference between the number of the sittings and that of the school population. To meet to some extent this want of adequate provision for the school population, it was found necessary to have a number of rooms used each by two schools, one in the forenoon and the other in the afternoon. There were forty rooms daily occupied in this way by eighty schools of first, second, and third grades. The unseasonable session hours for one-half of such schools and the general inconveniences of such occupancy can be preferred only to the illiteracy which would necessarily follow from the exclusion of thousands from the benefits of the schools.

The very large dependence of this population upon the free instruction of the public schools makes the subject of ampler provision a very grave matter, not only to those for whom no provision has been made,

but to the community of which they form so large a part. Thus far in the history of these schools the attendance has been wholly voluntary. It is scarcely reasonable to suppose that *all who do not attend* would voluntarily seek them, in event of ample provision; but that there can be enrolled a much larger percentage of the school population, without resort to compulsory measures, I have not the least doubt. No properly directed effort has yet been made to increase the enrollment, simply from the fact that sufficient provision has not been made for it, either in the accommodation or in the teaching force.

DISCIPLINE.

The number of suspensions during the year was 250, which was 69 less than the previous year. The number of pupils dismissed was 3, which was 5 less. The number of cases of corporal punishment was 159, or 27 less.

The following table presents the number of cases of suspension and corporal punishment, and the number of pupils dismissed for each of the last twelve years:

[Normal School not included in this table.]

| Year. | Average enrollment of pupils. | Tardiness. | | Corporal punishment. | | Suspension. | | No. of cases of dismissal. |
|----------------|-------------------------------|---------------|-----------------------------------|----------------------|-----------------------------------|---------------|-----------------------------------|----------------------------|
| | | No. of cases. | No. of cases to every 100 pupils. | No. of cases. | No. of cases to every 100 pupils. | No. of cases. | No. of cases to every 100 pupils. | |
| 1874-'75 | 4,057 | 2,977 | 73 | 589 | 15 | 238 | 6 | 202 |
| 1875-'76 | 4,434 | 543 | 12 | 266 | 6 | 146 | 3 | 121 |
| 1876-'77 | 4,841 | 565 | 12 | 334 | 7 | 141 | 3 | 132 |
| 1877-'78 | 5,649 | 745 | 13 | 456 | 8 | 229 | 4 | 30 |
| 1878-'79 | 6,285 | 1,044 | 16 | 525 | 8 | 276 | 4 | 82 |
| 1879-'80 | 6,573 | 1,478 | 22 | 663 | 10 | 397 | 6 | 86 |
| 1880-'81 | 6,567 | 1,844 | 28 | 552 | 8 | 437 | 7 | 59 |
| 1881-'82 | 6,763 | 1,759 | 26 | 396 | 6 | 327 | 5 | 23 |
| 1882-'83 | 7,070 | 2,035 | 28 | 157 | 2 | 330 | 4 | 8 |
| 1883-'84 | 7,225 | 2,352 | 32 | 125 | 2 | 346 | 5 | 13 |
| 1884-'85 | 7,689 | 3,462 | 45 | 186 | 2 | 319 | 4 | 8 |
| 1885-'86 | 8,191 | 3,906 | 47 | 159 | 2 | 250 | 3 | 3 |

Rule 35 requires that teachers shall practice such discipline in their schools as would be exercised by a kind and judicious parent in the family, always firm and vigilant, but prudent.

In the schools generally the character of the discipline was such as tends to insure reciprocal influences between teacher and pupil to develop good deportment, and to incite interest in study. In the reduced number of cases of discipline, when compared with those of other years, are seen more frequent appeals to the higher motives, and greater effort on the part of the teacher to awaken in the pupil a sense of propriety.

The fewer cases of corporal punishment are quite gratifying and attest the wisdom of the efforts put forth to prevent injudicious resort to it by requiring prompt personal report of each case of infliction. To the true teacher resort to this method of punishment must at all times be painful; but, thoughtful and farseeing, she is *unwilling*, when all milder methods have failed of subduing the incorrigible pupil, to prefer expulsion to it. In the latter lies an untried, though possible, chance for reformation; in the former, a removal, most probably, to the street—a school prolific in vice and crime.

EXAMINATIONS.

The examinations of the schools in the year, by the superintendent and supervising principals, were as follows:

The first and second semi-annual examinations of first, second, third, and fourth grade schools were, held, respectively, during the months of January and May.

The examinations of the third, fourth, fifth, sixth, seventh, and eighth grade schools in spelling were held from April 21 to 30, inclusive.

The oral examinations of the fifth, sixth, seventh, and eighth grade schools were made during April.

The written examination of fifth, sixth, seventh, and eighth grade schools was held June 15, 17, and 18; and that of the High School from June 7 to 9, inclusive.

Of the 7,059 pupils on the rolls, in schools from first to eighth grade, the last day of the school year, 5,159, or 73 per cent. of the whole, were promoted. The per cent. of promotions in the first four grades, or what is usually known as primary, was 72; the per cent. of promotion in the second four grades, or grammar, was 76.

HIGH SCHOOL.

The whole number of pupils enrolled was 247; the average number enrolled, 208; and the average number in daily attendance, 193.

The entire number enrolled was 75 more than in the previous year. Of this enrollment 210 were females and 37 males.

The inconveniences to which many of the pupils in attendance at this school are subjected, on account of its location, are very great. It should be centrally located. Its removal from the present building is also favored by the want of the rooms now occupied by it for schools of lower grades, to meet the wants of that section of the city in respect to accommodation.

The enrollment in the current school year is so large as to require the use of the entire building, except the basement rooms (which are poorly adapted to school-room use), and the two rooms occupied by the Normal School. This school has now reached such proportions in number as to require not only ampler accommodation, but a building of special construction, with such facilities as tend to insure the best results.

The following-named pupils were graduated June 11, 1886:

Leila L. Amos, Janie F. Bell, Adeline E. Berry, Ursuline V. Brooks, Eslander E. Cardozo, Helen A. Collins, Charles Cook, Laura Cross, Lilian B. Cross, Mary M. Dowling, Martha B. Fisher, Lewis B. Freeman, Martha A. Gray, Emma A. Guilberry, Hattie L. Hawkins, William M. Harris, Jennie C. Jones, Stella A. Johnson, Fannie B. S. Johnson, Emma L. Kinner, Alexina Laws, Ellen M. Lynch, Rebecca F. Norton, William Pollard, Emma J. Prater, Susanna H. Reed, Mamie L. Tancil, Anna E. Thompson, Virginia H. Tibbs, Lavinia E. Waring, Lilian L. Welsh, Rosa J. Webb, Mary E. Wilson.

MINER NORMAL SCHOOL.

In the school-year of 1877-78 an arrangement was made between the Commissioners of the District of Columbia and the trustees of the Institution for the Education of Colored Youth, by which this school might furnish yearly those specially trained for the teacherships of the public colored schools of the District. It provided that "the female graduates of the Public High School for the colored children shall, upon the recommendation of the principal of said High School, and the superintendent of the colored schools, and the approval of the trustees of the Miner

Normal School, be entitled to admission to said normal school, and upon the successful completion of the usual course, and passing the required examination for teachership in the public schools, shall be given the preference over all other candidates for position of teachers in the primary grades of the public schools for colored children of Washington and Georgetown and the District of Columbia."

Experience afterwards showed the want of harmony of plans and action essential to the greatest good of both institutions represented in this school, and in recognition of it, at the beginning of 1879-'80 the following articles of agreement, which were signed by the two committees, one representing the public schools and the other the Institution for the Education of Colored Youth, were confirmed by the board of trustees of public schools of the District of Columbia:

First. That there be established a normal school for colored children of the public schools of the District of Columbia at the Miner school building, Washington City, agreeably to the provisions of a contract entered into between the District of Columbia and the Trustees of the Institution for the Education of Colored Youth, on the 16th day of August, 1877, and to be known as the Miner Normal School, and shall bear the same relation to the board of trustees of public schools and pupils of the colored schools of the District of Columbia as now exists between the Washington Normal School and pupils of the white schools of said District.

Second. That the trustees of the Institution for the Education of Colored Youth shall fix the salaries to be paid the principal teacher and the assistant teacher of said Miner Normal School, and shall pay the same and all other expenses of said school, except such as otherwise provided for in the contract referred to, from the Miner trust fund.

Third. That the trustees of the institution shall have the right to nominate the principal teacher and assistant teacher of said Miner Normal School, and the trustees of public schools shall have the right to confirm or reject all nominations. In case of rejection it will be the duty of the trustees of the institution to submit other suitable nominations for the action of the board of trustees of public schools.

Fourth. That the management of said Miner Normal School shall be vested in a joint committee of four, composed of two members of the school committee of the institution and two members from the committee on teachers of the board of trustees of public schools, who shall have the same authority over said Miner Normal School as the committee on teachers of the board of trustees of public schools now has over the Washington Normal School: *Provided*, That the acts of the joint committee shall be subject at all times to revision and approval by the committee on teachers of the board of trustees of public schools, to which quarterly reports must be made; *And provided further*, That the joint committee shall also at the same time submit a similar report to the trustees of the institution.

Fifth. That the power of removal of the principal teacher and assistant teacher of said Miner Normal School shall be vested jointly in the board of trustees of the public schools of the District of Columbia and the executive committee of the Institution for the Education of Colored Youth.

Sixth. That this agreement can be terminated at the will of either board by giving not less than thirty days' notice in writing.

The course of study, which extends through one year, is the same as that for the Washington Normal school.

The annual examination for admission to this school was held June 6, 1885. Twenty-six candidates, all graduates of the High School, were present. Of these the twenty ranking highest were admitted to the school in September, and graduated from it June 10, 1886.

The following is a list of the names of the graduating class:

Alice V. Ashton, Rebecca J. Baldwin, Georgia Brooks, Cornelia B. Costin, J. Eleanor Datcher, Emma Davis, Josie B. Evans, Amelia J. Heathman, Jane M. Hill, Nannie T. Jackson, Rosa Johnson, Martha Liggins, Lyda Malvan, Sarah Riddles, Annie V. Ryder, Emily N. Sewall, Anna Smith, M. Bessie Smith, Mary M. Syphax, Carrie H. Thomas.

The diploma of the Miner Normal School, in accordance with a rule of the board which provides that graduates of said school who have taught

not less than one year and given evidence of their ability to govern and instruct a school shall receive it, was conferred upon the graduates below:

Matilda B. Cook, Bettie E. Hudnell, Erminie F. Shimm, Alverta Taylor, Clara T. Chase, Mary A. Ross, Emma E. Scott, Alice Wills, Charity Heathman.

The conviction gains steadily that professional training is an indispensable factor in the improvement of schools; and as the trustees of the Miner fund have given notice of their intention to withdraw from the support of this school at the close of the current school-year, I would recommend that the board of trustees of the public schools make due provision for a normal school for these two divisions.

NIGHT SCHOOLS.

Two night schools, one for males and the other for females, were opened in the Sumner building, December 7 and 8, and continued to April 23. Each school had two sessions per week, the session lasting from 7.30 to 9.30 o'clock. The entire number of sessions to each was thirty-seven.

The average nightly attendance was 108 in the former, and 124 in the latter. Except that none within the public school ages (six to seventeen years) were admitted without giving satisfactory evidence of inability to attend the day schools, there was no restriction as to age in the admissions to these schools. The pressure for admission was so great that it was not possible, with the extent of means provided, to accommodate more.

Two corps of teachers, each having one principal and three assistants, were employed. The teachers were selected from the corps of day-school teachers, and with special reference to their general fitness for this work.

The expenses of these schools were borne partly by the District of Columbia and partly by an association of ladies, who were very active in their efforts to have them established and who maintained during the entire term of their sessions a lively and deep interest in their work and success.

The avidity with which those enrolled in these schools seized and improved the opportunity thus presented to them for instruction, and the interest which they maintained by their regular attendance to the close of the term, present strong encouragement for the establishment of public night schools, under such restrictions as to admission as, after consideration, may be deemed wisest, sufficient in number to provide properly for this community.

TEACHERS.

The whole number of teachers employed during the year was 174, or 12 more than in the previous year. Of this number 164 were females and 10 males. In schools from first to the eighth grade, inclusive, there were 160 teachers and 5 sub-assistant teachers; in the high school, 1 principal teacher and 5 assistant teachers; in teaching vocal music, 2 teachers; and in teaching drawing, 1 teacher.

Very many of the teachers had long local experience. The good effects of this retention are clearly set forth in the results annually attained. Another very gratifying circumstance is the constant increase of teachers specially trained for the position. The number of normal graduates now holding teacherships in these schools is 103, and of that number 97 were educated in these schools.

Nearly one half of the teachers are in charge of first and second grade schools, and of the number holding these teacherships, I think it safe to say that at least 90 per cent. are desirous of promotion to higher grades of schools, not generally, as might be supposed, with the belief that they are more suited to those grades, or can in them effect better results, but with the object of securing the greater pecuniary compensation which follows the advancement in grade.

The importance of securing the most capable talent for the teacherships of the lowest grades, and especially the lowest grade, cannot be overestimated. To make the teacherships of such grades not only desirable to obtain, but to retain, greater pecuniary inducements, at least relatively when compared with the compensation allowed to teacherships of higher grades, than now exist should be offered.

It will scarcely be questioned that very much of the deficient scholarship and absence of proper mental discipline, seen in later years of school life, are due to the lack of judicious and efficient training and direction at the very threshold of it. In the perpetuation of schools inexperienced teachers must be given opportunity to gain experience; but, as a rule, it would be wiser to restrict them largely to that period of school-life in which the mental powers of the child will have been sufficiently developed and strengthened to protect itself, measurably at least, from the errors of inexperience.

In my opinion that degree of permanency in grade teaching which promises largely of good results is made almost impossible by the present opposing pecuniary inducements; therefore I would recommend that the salary of the teacher be determined not by the grade taught, but by the character of the work performed.

INDIGENT PUPILS.

The number of pupils to whom books were loaned on account of indigent circumstances was 991. This number was 120 less than in the previous year. The per cent. of pupils thus receiving books, based on the whole number of pupils enrolled, was nearly 10. This per cent. is not large when the circumstances in life of very many of this population are considered, and it indicates a degree of self-reliance worthy of commendation.

EXPENDITURES.

The entire expenditures for the year, which include those for permanent improvements, sites, buildings, and furniture, were \$163,091.34. The increase over the preceding year was \$14,486.36.

I have not the expenditures in detail, therefore I am not able to give the average cost per pupil.

The following table, by giving in succinct form the annual expenditures in these schools, beginning with the school year 1874-'75, when the board of separate management for these schools was discontinued, and ending with 1885-'86, affords ready means for comparison.

In the total cost per pupil it will be seen that there is quite an appreciable decrease between the first and last year named, in which full details are given, and that the prevailing decrease, from year to year, in the period embraced, is generally favorable to economical management.

[Normal School not included in this table.]

| | Salaries of teachers and superintendent. | Contingent expenses. | Permanent improve- ments. | Total expend- itures. | Increase. | Decrease. |
|--------------|--|-------------------------|---------------------------------|--------------------------|-------------|-----------|
| 1874-75..... | \$62,913 65 | \$18,387 79 | \$80 00 | \$81,381 44 | | |
| 1875-76..... | 63,805 73 | 22,423 00 | 15,614 15 | 101,842 88 | \$20,461 44 | |
| 1876-77..... | 66,257 58 | 17,469 68 | 23,547 07 | 107,274 33 | 5,431 45 | |
| 1877-78..... | 70,900 00 | 21,860 45 | 13,545 41 | 106,305 86 | | \$968 47 |
| 1878-79..... | 76,661 18 | 21,927 94 | 263 00 | 98,852 12 | | 7,453 74 |
| 1879-80..... | 81,031 14 | 22,960 16 | 343 20 | 104,334 50 | 5,482 38 | |
| 1880-81..... | 84,532 35 | 23,651 85 | 36,645 62 | 144,829 82 | 40,495 32 | |
| 1881-82..... | 90,004 43 | 10,233 19 | 9,400 18 | 109,646 80 | | 35,183 02 |
| 1882-83..... | 90,947 38 | 34,311 01 | 23,017 46 | 148,275 85 | 38,629 05 | |
| 1883-84..... | 94,570 50 | 32,805 20 | 5,704 91 | 133,080 61 | | 15,195 24 |
| 1884-85..... | 101,066 12 | 24,086 16 | 23,452 70 | 148,604 98 | 15,524 37 | |
| 1885-86..... | 108,995 82 | | | 163,091 34 | 14,486 35 | |

| | For each pupil. | | | | | Number of teachers. | Number of pupils to each teacher. | Average salary to each teacher. |
|--------------|-----------------|-------------------|----------------|-----------|-----------|---------------------------|--|--|
| | Tuition. | Incident- als. | Total cost. | Increase. | Decrease. | | | |
| 1874-75..... | \$15 51 | \$4 53 | \$20 04 | | | 88 | 48 | \$686 51 |
| 1875-76..... | 14 40 | 5 06 | 19 46 | | \$0 58 | 89 | 52 | 688 82 |
| 1876-77..... | 13 69 | 3 82 | 17 51 | | 1 95 | 92 | 54 | 693 01 |
| 1877-78..... | 12 55 | 3 87 | 16 42 | | 1 09 | 108 | 54 | 628 24 |
| 1878-79..... | 12 20 | 3 49 | 15 69 | | 73 | 118 | 55 | 623 82 |
| 1879-80..... | 12 33 | 3 49 | 15 82 | \$0 13 | | 128 | 53 | 615 48 |
| 1880-81..... | 12 87 | 3 60 | 16 47 | 65 | | 134 | 50 | 614 05 |
| 1881-82..... | 13 31 | 1 51 | 14 82 | | 1 65 | 143 | 48 | 613 66 |
| 1882-83..... | 12 86 | 4 85 | 17 71 | 2 89 | | 147 | 50 | 603 38 |
| 1883-84..... | 13 08 | 4 54 | 17 62 | | 09 | 154 | 48 | 599 48 |
| 1884-85..... | 13 14 | 3 13 | 16 27 | | 1 35 | 162 | 47 | 609 97 |
| 1885-86..... | | | | | | 174 | 47 | |

STATISTICS.

The usual statistics, which have received such attention during the year as to insure accuracy, are full and complete.

They have been put in such form as will permit easy reference to results in the schools as a whole, or to results in the individual school.

If desired, to accompany this report, a copy will be furnished.

INDUSTRIAL EDUCATION.

Public sentiment is becoming more and more pronounced in favor of industrial training in the public schools.

During the school year ending June, 1885, classes for sewing were organized among the girls in several of the schools, and generally the last hour of the school week was devoted to the work. These classes were under the regular teachers, who, from their want of special training to instruct others in this direction, could not effect the best results. The experiment, however, was measurably successful, inasmuch as it showed that such work can be done without loss to the regular work of the schools; and it furnished satisfactory evidence that, under special expert training and direction, all that may be reasonably desired can be attained. The sewing hour seemed not only to present recreation, but to aid in the accomplishment of the regular school work. In my opinion the expense that would be necessary for the employment of a special teacher in sewing would be inconsiderable in comparison with the re-

sults and good attainable. It would be a positive step in the direction of industrial education, and might prove to be the entering wedge for the introduction of hand work on a larger and varied scale.

No movement on the industrial line favorable to the boys has been made in these schools. Here, however, from the nature of the work adapted to them, greater difficulties confront us, both in the outlay for the outfit and in the amount and character of the teaching force. The way, in my opinion, to overcome eventually these difficulties is, by actual trial, on the smallest and least expensive scale, to endeavor to convince that such education is feasible and invaluable in what it offers toward properly preparing and fitting for life, and then to await that full conviction of the public mind as to its wisdom which will demand and procure the means necessary to perfect it.

In an earlier portion of this report, I have shown that there is great disparity in the enrollment in the higher grades of school, between the two sexes. In the opportunity afforded through education of this character for attainments better preparing them for the practical in life, in my opinion, the school life of the boy will be materially lengthened.

Such education in the development of mechanical aptitude promises aim to life, the wisdom of which will be attested by the improved morals of the youth of the community. It will be of great benefit to the youth of this population whose large exclusion from those opportunities tending to mechanical pursuits inclines to make them, in their enforced idleness, easy prey to vice and crime.

Whether considered as a means for intellectual cultivation or for the practical in life, this subject is entitled to due consideration.

The statistics for the month of October (current school year) show an enrollment of 9,558 pupils, or 240 more than in the corresponding month of last year. There has been no increase in the number of seats provided for pupils. To accommodate the increased enrollment, the number of schools with reduced session has been increased from eighty in the last year to eighty-eight in the current year. Of these eighty-eight schools, which occupy forty-four rooms, thirty-nine are of first grade, twenty-six of second grade, seventeen of third grade, and six of fourth grade. In the reduced time for session the work prescribed for the grade will, as a rule, be unfavorably affected as the grade advances.

It is apparent that the greatest and most pressing need of the schools of these two divisions is accommodation—buildings, not only to meet properly the wants of the present enrollment of the school population, but also to justify measures to secure the enrollment of the large portion of the school population as yet wholly unprovided for.

I would recommend the erection of four eight-room school buildings for schools from the first to the eighth grade, inclusive, with locations as follows: One in the northern part of the city, one in the eastern, one in the southern, and one to meet the needs of that portion of the school population more centrally situated, and who cannot receive any of the benefits of the present public-school provision without much inconvenience on account of distance.

I would also recommend that such portions of the Miner building as are now occupied by the High School be given to schools of lower grades, and that a building of special adaptation to such school be erected at some point offering greater accessibility to the entire school population.

G. F. T. COOK.
Superintendent

BOARD OF TRUSTEES OF PUBLIC SCHOOLS, DISTRICT OF COLUMBIA.

| Name. | Residence. | Place of business. |
|---|--------------------------------------|--------------------------------|
| LOCAL COMMITTEE. | | |
| <i>First Division.</i> | | |
| J. J. Darlington | 1334 I street, N. W. | 410 Fifth street, N. W. |
| <i>Second Division.</i> | | |
| John W. Ross | National Hotel | 410 Fifth street, N. W. |
| <i>Third Division.</i> | | |
| Appleton P. Clark | 119 Sixth street, N. E. | 220 Four-and-a-half st., N. W. |
| <i>Fourth Division.</i> | | |
| Roswell A. Fish | 1208 Virginia avenue, S. W. | Treasury Department. |
| <i>Fifth Division.</i> | | |
| W. W. Curtis | 1401 Thirty-first street, N. W. | 925 F street, N. W. |
| <i>Sixth Division.</i> | | |
| A. H. Witmer | St. Elizabeth Insane Asylum | St. Elizabeth Insane Asylum. |
| John R. Francis | 2112 Pennsylvania avenue, N. W. | 2112 Pennsylvania ave., N. W. |
| <i>Seventh Division.</i> | | |
| Henry Johnson | 2132 Seventeenth street, N. W. | Office Recorder of Deeds. |
| <i>Eighth Division.</i> | | |
| James M. Gregory | Howard University Grounds | Howard University. |
| OFFICERS OF THE BOARD. | | |
| <i>President.</i> | | |
| J. J. Darlington | 1334 I street, N. W. | 410 Fifth street, N. W. |
| <i>Secretary.</i> | | |
| J. G. Gurley | 3055 Q street, N. W. | Franklin Building. |
| <i>Superintendent of Schools in the First Six Divisions.</i> | | |
| W. B. Powell | 1221 I street, N. W. | Franklin Building. |
| <i>Superintendent of Schools in the Seventh and Eighth Divisions.</i> | | |
| George F. T. Cook | 1537 K street, N. W. | Sumner Building. |

Meetings of the Board of Trustees.—The stated meetings of the Board of Trustees are held on the second Tuesday of each month, and also on the last Tuesday in June.

STANDING COMMITTEES OF THE BOARD.

| | |
|--|--|
| <i>Rules.</i> | Messrs. Clark, Johnson, and Curtis. |
| <i>Ways and Means, Supplies and Accounts.</i> | Messrs. Johnson, Fish, and Clark. |
| <i>Buildings, Repairs, and Furniture.</i> | Messrs. Witmer, Fish, and Gregory. |
| <i>Normal and High Schools.</i> | Messrs. Ross, Curtis, and Francis. |
| <i>Teachers and Janitors.</i> | Messrs. Gregory, Clark, and Darlington. |
| <i>Text-books, Studies, Examinations, Promotions and Scholarships.</i> | Messrs. Fish, Ross, and Gregory. |
| <i>Penmanship and Music.</i> | Messrs. Francis, Witmer, and Ross. |
| <i>Industrial Education and Drawing.</i> | Messrs. Curtis, Johnson, and Darlington. |
| <i>Library and Annual Report.</i> | Messrs. Darlington, Witmer, and Francis. |

M.—REPORT OF THE SUPERINTENDENT OF THE TELEGRAPH AND TELEPHONE SERVICE.

OFFICE TELEGRAPH AND TELEPHONE SERVICE,
Washington, D. C., October 12, 1886.

SIRS: I have the honor to submit the following report of the transactions of the telegraph and telephone service of the District of Columbia during the fiscal year ending June 30, 1886—being the twenty-second annual report of the fire-alarm and police telegraph of this District.

The fire-alarm telegraph during the year was improved by putting new alarm gongs—known as the “Gamewell Excelsior Electro-Mechanical Gong-Striker”—with 18-inch bells, in engine-houses No. 1, 2, 4, 5 and 6. These instruments are very superior in both construction and principle.

Four new signal boxes were purchased by the District, and one each by the Washington City Orphan Asylum and the Children’s Hospital; making altogether six new signal boxes added during the year to the fire-telegraph.

A few necessary changes, as well as enlargements of the circuits, were made, to keep pace with the growing demands of city improvements. Where new wire has been required in changing the routes, or by the enlargement of circuits, hard-drawn copper wire No. 12 has been used instead of No. 9 iron wire—experience having fully demonstrated its superiority for telegraphic purposes.

The fire-telegraph covers a considerable portion of the city of Washington and also of Georgetown, and consists, in part, of 135 signal boxes within city limits and one beyond the boundary (at Nineteenth street and Columbia road), making 136 signal stations from which alarms are transmitted by the automatic system of fire-telegraph.

The rapid growth of many suburban districts adjacent to the city calls loudly and urgently for the extension of the fire-alarm system. Uniontown, Mount Pleasant, Le Droit Park, and Seventh street road, near Howard University, each and all ought to have fire-alarm boxes without further delay. Not less than ten boxes for these rural districts are required, and about fifteen additional boxes are needed within city limits.

The fire-telegraph has continued to work in the most satisfactory manner; not a single failure in the transmission of alarms during the year.

There were 198 alarms pertaining to fires during the year, which were transmitted through this office to the fire department, to wit: 170 first alarms, 3 second alarms, 4 special alarms, 3 general alarms, and 18 local alarms.

The local alarms were in all cases communicated by telephone to the fire company nearest the fire without striking an alarm by telegraph, and usually given in response to telephone messages announcing the existence of a fire, but where no attempt had been made to give an alarm by the use of the regular fire-alarm telegraph

Divided by the month the alarms came as follows :

| Month. | 1st alarms. | 2d alarms. | Special. | General. | Local. | Total. |
|-----------------|-------------|------------|----------|----------|--------|--------|
| July | 15 | ..... | ..... | 1 | ..... | 16 |
| August | 7 | ..... | ..... | ..... | ..... | 7 |
| September | 12 | ..... | ..... | 1 | 1 | 14 |
| October | 10 | ..... | 1 | ..... | 1 | 12 |
| November | 14 | 1 | 1 | ..... | 1 | 17 |
| December | 21 | ..... | ..... | ..... | 1 | 22 |
| January | 15 | 1 | 2 | ..... | 7 | 25 |
| February | 17 | ..... | ..... | ..... | 5 | 22 |
| March | 18 | ..... | ..... | 1 | ..... | 19 |
| April | 16 | 1 | ..... | ..... | 1 | 18 |
| May | 8 | ..... | ..... | ..... | 1 | 9 |
| June | 17 | ..... | ..... | ..... | ..... | 17 |
| Total | 170 | 3 | 4 | 3 | 18 | 198 |

Of the 170 first alarms, 160 came automatically from the fire-alarm signal boxes located on the streets, and 10 by telephone from localities near the fire.

In transmitting alarms from central office to the fire department, 159 went through the automatic repeater, 21 through the manual repeater, and 18 by telephone, these being local alarms, as above explained.

There are seven fire-alarm districts.

The alarms from the several districts were—

| | |
|------------------------|----|
| First district | 70 |
| Second district | 37 |
| Third district | 20 |
| Fourth district | 25 |
| Fifth district | 17 |
| Sixth district | 17 |
| Seventh district | 12 |

From each of the following boxes one alarm was received during the year, to wit: 13, 14, 135, 137, 143, 146, 21, 23, 25, 26, 27, 213, 217, 219, 241, 245, 251, 253, 32, 34, 312, 315, 327, 43, 417, 421, 425, 431, 52, 53, 54, 512, 516, 524, 612, 621, 623, 625, 628, 72, 721, 731.

Two alarms each from 17, 19, 124, 125, 131, 134, 142, 145, 149, 214, 137, 249, 251, 39, 416, 423, 56, 514, 517, 631, 632, 73, 713, 714, 732.

Three alarms each from 147, 151, 152, 153, 236, 37, 321, 413.

Four alarms each from 132, 148, 218, 243, 314, 41, 45, 521.

Five alarms each from 12, 127, 62.

Seven alarms from 212.

No alarms came in during the year from either of the following signal-boxes, to wit: 15, 16, 18, 121, 123, 126, 129, 136, 154, 24, 215, 216, 238, 239, 246, 247, 248, 254, 256, 257, 31, 35, 36, 38, 318, 319, 324, 325, 328, 42, 46, 47, 415, 426, 427, 432, 435, 436, 51, 513, 526, 527, 528, 61, 63, 64, 65, 67, 613, 621, 71, 76, 735.

The record of alarms shows that during the year 32 alarms were between midnight and 6 o'clock a. m., 35 alarms between 6 o'clock a. m. and mid-day, 43 alarms between mid-day and 6 o'clock p. m., and 62 alarms between 6 o'clock p. m. and midnight.

In extinguishing fires in response to the alarms transmitted from this office, the records show that the fire companies were absent from their respective houses 14 hours and 40 minutes during the month of July, 6 hours and 12 minutes in August, 7 hours and 20 minutes in September, 7 hours and 47 minutes in October, 15 hours and 20 minutes in November, 16 hours and 5 minutes in December, 19 hours and 20 minutes in January, 11 hours and 53 minutes in February, 13 hours and 49

minutes in March, 14 hours and 22 minutes in April, 7 hours and 43 minutes in May, and 15 hours and 53 minutes in June; total, 150 hours and 34 minutes during the year.

Allowing eight hours for a day's work, the firemen spent 18 days, 6 hours, and 34 minutes during the year in combating the flames.

PATROL SYSTEM.

The patrol telegraph and telephone system known as the Gamewell has been in successful operation in the old fifth and seventh, now the first and sixth, precincts during the fiscal year covered by this report. Changing the boundaries of the precincts required some changes in the location of sentry-boxes (which have been made recently). The system in both precincts is in good working order, and is considered by the force to be an important auxiliary in their service and should be placed in all the precincts.

TELEPHONE SERVICE.

Including the patrol service, the District of Columbia, under third department, had in use during the year 117 sets of telephones, rented by the year from the Chesapeake and Potomac Telephone Company, of this District; 162,742 messages pertaining to police business were transmitted to and from this office by telephone during the year, all of which were recorded in full, being an increase of 11,671 over the previous year. As not more than one-half of the telephone messages which pass over these wires are recorded, I assume that not less than 325,000 messages were sent through this office during the year; an average of nearly 900 per day. The telephone, although not a perfectly reliable instrument for the transmission of important matter, yet has become so useful on short lines as to be a necessity in the transaction of much of the public as well as private business of every community.

EXPENDITURES.

The expenses incurred during the year were as follows to wit:

| | |
|---|------------|
| Salaries of regular employes | \$8,440 00 |
| Purchase of new instruments | 1,361 48 |
| Telephone rental and exchange service | 2,113 46 |
| Rent of office rooms | 200 00 |
| Chemicals, &c., for batteries | 1,297 42 |
| Purchase of new wire | 320 20 |
| Extra labor | 695 13 |
| Forage | 232 29 |
| Miscellaneous items (including one horse) | 374 36 |
| Printing and stationery | 58 54 |
| Gas-light | 130 20 |
| Ice | 18 15 |
| Blacksmithing | 40 80 |
| Repairs of various kinds | 80 71 |
| Washing | 24 00 |
| Total | 15,386 74 |

Estimates heretofore submitted for the support of this department for the fiscal year ending June 30, 1888, are as follows to wit:

| | |
|--|------------|
| One general superintendent | \$1,600 00 |
| One electrician | 1,200 00 |
| Two telegraph operators (\$1,000 each) | 2,000 00 |
| Three telegraph operators (\$720 each) | 2,160 00 |

| | |
|---|------------------|
| Three repairmen (\$720 each) | 2,160 00 |
| One inspector | 900 00 |
| One laborer | 400 00 |
| Total for salaries | 10,420 00 |
| For new instruments, battery supplies, and general and contingent expenses | 8,000 00 |
| And a further sum for a beginning in the good work of putting the wires underground | 25,000 00 |
| Total for all purposes | 43,420 00 |

UNDERGROUND CABLES.

I have made an estimate of the cost of putting all the wires of the District government under ground, and find the cost to be \$150,000. This estimate is based upon laying trunk lines, as indicated on the accompanying map, measuring 83,400 linear feet, and with loop or branch routes, not shown on map, estimated at 138,600 linear feet, and with 500 miles of wire. This plan, if carried out, would put all the fire-alarm and telephone wires of the District within city limits under ground, and afford ample facilities for the addition of all the instruments that will be required for many years to come. One of two things will have to be done: put the wires under ground, or put them on poles of sufficient height as to keep them above the trees in the streets. The latter proposition is impracticable, the other practical, and, in the long run, far more economical. The facts are that very soon the fire-alarm telegraph lines will have to be reconstructed, whether above or below the surface. These lines were constructed in 1875 over house-tops and on small poles, at an expense, including the instruments, of \$75,000, all of which was paid by the District of Columbia. Now these poles are all in a state of rapid decomposition, some of them quite rotten, and must be substituted in some way very soon. The house-top wires are regarded by the owners of the houses upon which they are fastened as a nuisance, and are only tolerated because of the deep interest felt in the fire-telegraph. Whatever may have been said or thought in regard to the success or want of success of underground wires, I think the question is fully settled that upon short lines, for municipal purposes, there is no doubt of their superiority over even the best-constructed air lines; better because free from atmospheric disturbances and other air-line troubles, and hence there need be no hesitancy or doubt as to the practicability of an underground system.

TRUNK LINES OF CABLE PLAN.

The main trunk lines should be laid as follows, to wit:

Starting from central office, at northwest corner of Fifth and D streets northwest, along Louisiana avenue to Pennsylvania avenue, and thence along Pennsylvania avenue to Fifteenth street northwest. At Pennsylvania avenue and Twelfth street run along D street to Fifteenth street northwest. From Pennsylvania avenue and Thirteenth street run along Thirteenth to L street northwest, thence along L street to Seventeenth street; along Seventeenth street to M street northwest; along M street to High street in Georgetown. From Pennsylvania avenue and Ninth street northwest along Ninth street to Boundary street northwest. From Fifteenth and L streets northwest along Fifteenth street to Boundary northwest. From Nineteenth and M streets northwest along Nineteenth street to F street; along F street to Virginia avenue; along

Virginia avenue to Twenty-sixth street, and along Twenty-sixth street to I street northwest. From Twentieth and M streets northwest along Twentieth street to Boundary street, and along Boundary street to Nineteenth street northwest.

Starting again from central office, run along D street to New Jersey avenue, along New Jersey avenue to the sixth precinct station-house; then continuing the other way, on New Jersey avenue to C street, and along C street to Massachusetts avenue northeast, and along Massachusetts avenue to Eleventh street and Massachusetts avenue northeast. From Fifth and Massachusetts avenue northeast, south along Fifth to G street southeast, thence along G street to Eighth street east, thence along Eighth street to Eighth and Virginia avenue southeast; along Virginia avenue to Eleventh street southeast, and thence along Eleventh street southeast to the Anacostia bridge.

Starting from Third and D streets northwest, along Third street to Boundary northwest.

Starting from Third and H streets northwest, along H street to Boundary and H streets northeast.

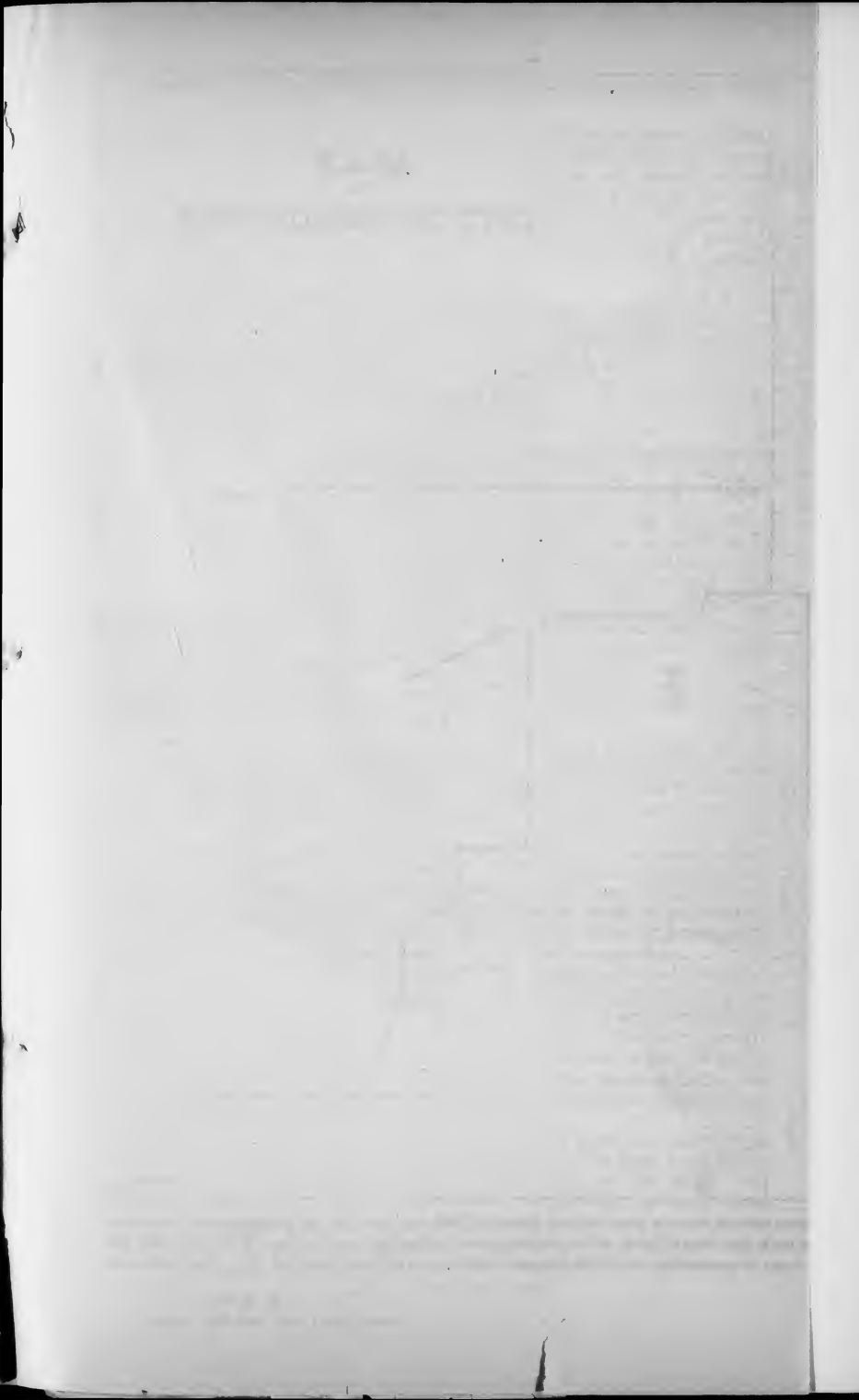
Starting again from headquarters at Fifth and D streets northwest, run south along Four-and-a-half street to Virginia avenue southwest and to No. 4 engine-house, thence down Four-and-a-half street to E street south, thence along E street to Sixth street, and along Sixth street to the Sixth-street wharf southwest.

Starting again from No. 4 engine-house, on Virginia avenue southwest, along said avenue to D street, and along D street to Fourteenth and D streets southwest.

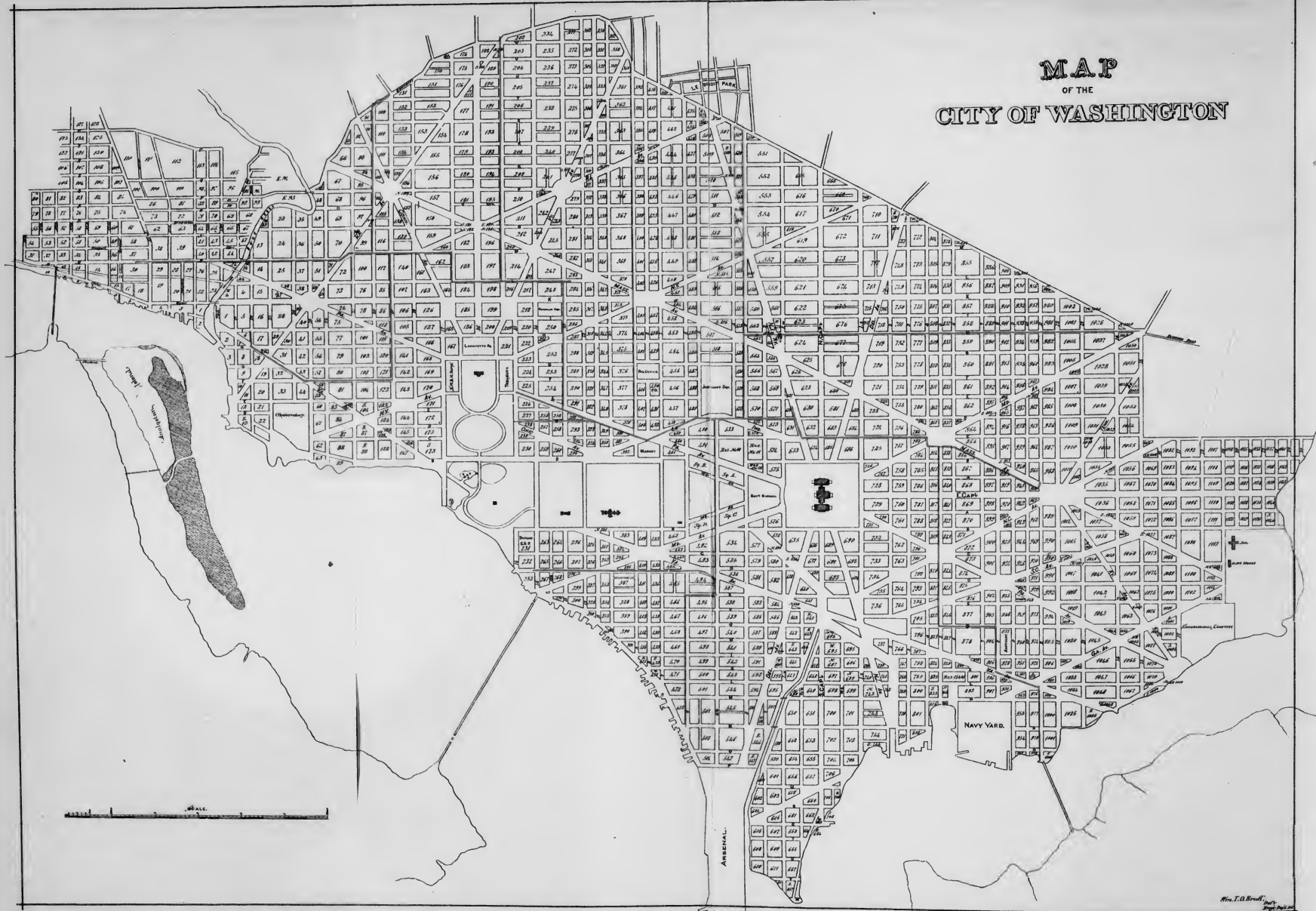
These, as trunk lines, will afford abundant opportunity to reach by loops all necessary signal-boxes for fire-alarm and patrol service and to the various station-houses, together with such of the principal schools as it may be desirable to connect with the telephone service. It is important that this work be begun and pushed forward as rapidly as possible. As stated before, the fire-telegraph wires must of necessity be reconstructed very soon, and if ever to be put under ground it should be done at once, so as to save the expense of rebuilding the air lines.

PRINTING TELEGRAPH.

In one or two former reports I have invited the attention of the Commissioners to the superiority of printing-telegraph instruments for the transaction of police business over the wires instead of telephones, believing, as I then did and do now, that a good system of printing telegraph for police business is far superior to any other method between headquarters and the various station-houses. If all messages which pass over the wires be printed by the party sending, the message on his own instrument and at the same time on the receiving instrument where sent no dispute will arise as to the contents of the dispatch. Another advantage in favor of printing is, that such messages could be sent and received without the possibility of being picked up on the way by parties who ought not to hear them; in other words, it would be strictly confidential. Messages sent by a printing telegraph can only be read by sight of the words as printed on the paper. Any person who can spell correctly and read passably well can readily learn to transmit and receive messages as correctly as a skillful expert can upon the Morse instrument. Good printing instruments can be purchased at a reasonable and comparatively small price, and as a matter of economy the printer is far less expensive than is the hire of telephones.



MAP OF THE CITY OF WASHINGTON



Submitted with and as a part of the annual report of the superintendent of the telegraph and telephone service for the year ending June 30, 1886, in regard to an underground system of cables for the District of Columbia. The red lines in this map indicate the proposed routes upon which the trunk lines of an underground telegraph system should be laid for the accommodation of the telegraph and telephone systems for the District of Columbia. The necessary loop lines in connection with the proposed system are not here marked, being too numerous to be decided upon accurately at this time—October 12, 1886.

H. R. M.,
Gen'l Supt Tele. and Tel. Service.

The support which I have received from the Commissioners in efforts for increasing the efficiency of the department, together with the hearty co-operation of the police and fire departments in all details of our work, I most gratefully acknowledge, and for which I thank you one and all. The employes of this department have been diligent and painstaking in the discharge of their arduous duties, and for which I commend them to your favorable consideration and to them I convey my sincere thanks and gratitude.

All of which is respectfully submitted.

HENRY R. MILES,

General Superintendent Telegraph and Telephone Service.

THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

N.—REPORT OF THE INTENDANT OF THE WASHINGTON ASYLUM.

WASHINGTON ASYLUM, *September 10, 1886.*

GENTLEMEN: In submitting my annual report of the operations of the Washington Asylum for the fiscal year ending June 30, 1886, I beg leave to call your attention to the following facts: During the past year the male prisoners of the work-house have been principally employed on street work under the directions of the superintendent of streets, in grading the roadways in the outskirts of the city, cleaning and carting away garbage and refuse from the markets, cleaning alleys and gutters, and in draining and filling ponds of stagnant water throughout the city; also, during the winter, in removing snow from the sidewalks and crossings in the eastern section of the city.

The gang employed at grading streets consisted of an average of 52 picked men, and during the year performed 13,862 days' labor, with 578 days' work of horses and 1,067 days by overseers. The work consisted of grading East Capitol street from the Eastern Branch towards Lincoln Park, and continued up to September 21, when they were removed to B street and Tennessee avenue and worked on streets in that vicinity up to the last of December, when they were set to work grading Twelfth street northeast and filling B street between Twelfth and Fourteenth streets northeast. Upon completion of work at this point, which continued until March 25, work was resumed on East Capitol street, where they have been employed up to the present time.

Another gang, with an average of 26 men and 3 officers, were employed in cleaning alleys and gutters throughout the city, and during the winter, when necessary, in removing snow and ice from the sidewalks and crossings of streets east of the Capitol. They were at work for 291 days' during the year and performed 7,567 days' labor, with 943 days' work of overseers. A large amount of work was accomplished for which there were no funds available, and which otherwise would have remained undone.

During the year there were 251 wagon-loads of garbage and refuse material collected and removed from the markets. On this work there was employed an average of 6 men and 1 overseer for 168 days. No accurate measurement of the quantity of earth removed or work done by the street-gangs was kept, but it is estimated that this labor is worth at least \$1 per day per diem to the District, making \$25,193 that should be placed the credit of the Asylum.

No estimate of the value of the labor of the work-house inmates performed on the grounds of the institution has been kept, other than the value of the crop of vegetables, &c., grown, which has been used on the place, the value of which, at market prices, would amount to \$3,367.42, namely:

| | | | |
|----------------------------|----------|--------------------------------|----------|
| 150 bushels rye | \$90 00 | 300 bushels potatoes | \$180 00 |
| 10 tons straw | 165 00 | 300 bushels turnips | 75 00 |
| 2 tons oats | 35 00 | 350 pounds tomatoes | 140 00 |
| 10 tons corn fodder | 150 00 | 55 bushels peas | 55 00 |
| 3 tons hay | 50 00 | 1,000 bushels beets | 250 00 |
| 50 bushels corn, ear. | 30 00 | 1,000 bushels carrots | 250 00 |
| 25 bushels onions | 30 00 | 2,000 pounds grapes | 50 00 |
| 10,000 cabbages | 300 00 | 5,475 gallons milk | 1,095 00 |
| 100 dozen celery | 40 00 | 900 dozen eggs | 180 00 |
| 250 melons | 40 00 | Berries and small fruits | 75 00 |
| 1,457 pounds pork | 87 42 | | |
| | | | 2,350 00 |
| | 1,017 42 | | 1,017 42 |
| | | Total | 3,367 42 |

Of the female prisoners, some have been employed in making clothing and bed linen for the inmates of the institution, others in the laundry and in general housework and helping in the care of the old and disabled inmates of the almshouse, several of whom deserve much credit for the faithful performance of their duties in this respect.

The following is a list of the principal articles made in the sewing-room during the year:

| | | | |
|------------------------|-----|--------------------|-----|
| Work-house coats | 119 | Bed-ticks | 121 |
| Work-house pants | 281 | Pillow-ticks | 52 |
| Almshouse coats | 61 | Pillow-cases | 680 |
| Almshouse pants | 134 | Sheets | 373 |
| Cheek shirts | 677 | Dresses | 147 |
| White shirts | 123 | Gowns | 158 |
| Woolen shirts | 63 | Chemise | 251 |
| Cotton drawers | 197 | Wrappers | 27 |
| Woolen drawers | 12 | Petticoats | 24 |
| Vests | 65 | Towels | 135 |

During the same time there was repaired by male prisoners 1,204 pairs of shoes and 30 sets of harness.

The appropriation of \$20,000 for the conversion of magazine No. 1 into a prison for female inmates of the work-house, was expended for this purpose under the superintendence and directions of Mr. Thomas B. Entwistle, inspector of buildings, District of Columbia, in a most satisfactory manner. The house is a complete success in ventilation, heating, and arrangements for the health and comfort of its inmates, and is a vast improvement on the former plan of herding both sexes under one roof. Their removal from the main building also affords some relief to the overcrowded condition of the quarters occupied by the male prisoners, who now occupy the seven rooms vacated by them.

The new building is 36 by 102 feet, and three stories high. On the first floor there is one work-room 14 by 28 feet; two store-rooms 13½ by 13½ feet; hall 12 feet; stair-hall 14 by 22 feet; a laundry 28 by 30 feet, and drying-room 22 by 12 feet.

There are 8 cells 10½ by 10½ feet on the second-floor, with iron doors and bunks; also 8 rooms of the same size fitted for use of the guards and keepers. A corridor 10½ feet wide runs the entire length of this floor, with a cross-hall 12½ feet wide.

The third floor consists of 16 single and 8 double cells, with a corridor 10 feet wide and a cross-hall 12½ feet wide upon which the cells open.

There was a boiler-room built outside the building 12 by 26 feet and one-story high, also a coal vault for the protection of the fuel from the weather.

The building was completed and occupied on the first of February, and has been pronounced by experts as the most complete female prison ever visited by them. I consider it an acquisition of which the District may well feel proud. The furniture and compensation of the guards (one male and two female) was paid from the contingent fund of the Asylum, up to the end of the fiscal year. A substantial road has been constructed to the building, and the grounds about have been nicely graded.

The old filling-house at the magazine wharf was moved to a point 20 feet east of the new stable, placed on a brick foundation, a new tin roof, spouting and sills added, and the structure converted into a carpenter shop and storage-room. The frame building from the same grounds, formerly used as a stable, was moved to a point 40 feet southeast of the stable and placed on a brick foundation. A forge was built, a new bellows purchased, and the building is now used as a blacksmith and wheelwright shop.

A pigery 28 by 40 feet was built from old material and divided by five partitions into pens with yards attached, which have been paved with cobble-stone, and in which are now kept 27 fine hogs. More room and a larger stock of hogs could be made profitable.

The ornamental gateway formerly over E street was used to connect the carpenter shop and stable, thus shutting out the cold winds from the north and adding to the appearance of the set of buildings. Six pairs of sliding doors were placed on the under part of the stable, thus inclosing the basement, which is used for the storage of carts, tools, lumber, &c.

All of these buildings, including the roofs, were painted, substantial approaches built, and needed pavements laid, and they are now well suited for the uses of the Asylum, in good repair, and no additional expense will be necessary for several years.

Several old sheds and two of the old shanties formerly used as hospitals have been torn down and the ground graded. A portion of the lumber from them was used in making the above repairs and the rest used for fuel.

Wire screens were placed in the windows and doors of the different hospital wards, adding much to the comfort of the patients. No other improvements have been made to the hospital buildings, except in way of slight repairs. A new ward, for 25 patients, is in contemplation for the next year, and I respectfully recommend that the old ward occupied by white female patients be moved from its present site and a new ward, of the same style and dimensions as the one constructed last year, be built on the site. This will give a uniform appearance to the front of the hospital grounds.

Again, within the past year the parking commission have acquired a large piece of valuable ground, ceded by the General Government to the Asylum, and known as the Eastern Branch Magazine Grounds. This ground was very valuable to the Asylum, and its loss will be greatly felt, but if judiciously managed will become valuable for the purposes of said commission, and through them to the city, in its finely shaded streets and avenues.

In consequence of the large number of mildly insane persons who are sent to the asylum for the insane and maintained there by the District, and owing to the overcrowded condition of that excellent institution, partially from this cause, the question of other accommodations

for this class has been informally discussed, and the opinion seems to prevail that some method should be instituted to relieve that institution from being the only refuge, and the District from the large expense it is now under for the care of this class of patients. I have the honor to suggest that the two brick buildings now vacant, but formerly used as a portion of the naval magazine, be enlarged and remodeled for this purpose. By joining these two buildings together by a small structure, and adding one story to the height of them, comfortable quarters for 75 patients could be made at a comparative small outlay, and in a location where they would not be annoyed by the other inmates of the institution. The care of and the erection of buildings for this class would add largely to the annual expenditures of the asylum, and no equivalent could be expected from them, but it is believed that a considerable annual saving would be made to the District by bringing these people directly under the care of the honorable Board of Commissioners of the District of Columbia, and to this end I recommend that plans and estimates for the conversion of the above-mentioned buildings be made, in order that the subject may be submitted for the action of Congress.

During the past year a large amount of repairs have been made to the dump-cars used for street grading. New bed pieces, axle boxes, body bolts, floors, breaks, &c., have been added; also all tools for the prosecution of this outside work have been kept in order, the horses shod, and a large amount of general repairs to wagons, carts, &c., has been done in the blacksmith shop, and in addition to this two large and substantial wagons have been made for the purpose of hauling garbage and refuse from the markets. This work has been done by Mr. Prather, the blacksmith, who is a very valuable man to the institution, and I recommend that his pay be increased to \$30 per month, or to some sum corresponding to the value of services rendered.

I recommend that an appropriation of \$2,500 be asked as a special repair fund for the purchase of tools, &c., for repairs to dump-cars and track, in the work of street grading, repairs to steam cooking and heating apparatus, and for painting the intendant's house, and the erection of a porch, which is much needed. I also recommend that a kitchen and suitable cooking apparatus be erected for use of the hospital, the one now in use being entirely inadequate for the service required, and respectfully ask that an appropriation of \$2,750 be asked for this purpose.

I again call your attention to the small pittance allowed as pay for the nurses, ambulance driver, and one of the keepers at the female work-house. It is impossible to secure responsible persons for these positions for the pay allowed at present, and the consequence is that the whole institution suffers in good name and effective work. I therefore recommend that the pay of the four nurses be increased to \$180 each; the driver of the ambulance to \$240, and the keepers of the female work-house to \$300 each per annum.

The accompanying report of the visiting physician of the asylum will show the condition and operations of the medical department of the institution, and I recommend that the suggestions and recommendations for the improvement of the hospital service receive favorable consideration.

I have the honor to submit the following estimate for the maintenance of the asylum for the fiscal year ending June 30, 1888:

| | |
|---|----------|
| For contingent expenses, including provisions, fuel, forage, lumber, shoes, dry goods, hardware, medicines, necessary articles, and improvements..... | \$40,000 |
| Special repair fund, including purchase of articles and tools for repairs to dump-cars and track in the work of street grading, and the repairs of steam-heating and cooking apparatus, painting, &c..... | 2,500 |

| | |
|---|--------------|
| Erection of kitchen and cooking apparatus for hospital..... | \$2,750 |
| One intendant | 1,200 |
| One matron..... | 600 |
| One visiting physician..... | 1,080 |
| One resident physician..... | 480 |
| One clerk..... | 600 |
| One baker..... | 420 |
| One overseer..... | 800 |
| Five overseers, at \$600 each | 3,000 |
| One engineer..... | 600 |
| One assistant engineer | 400 |
| One second assistant engineer | 300 |
| Five watchmen, at \$365 each | 1,825 |
| One blacksmith..... | 360 |
| One ambulance driver..... | 240 |
| One hostler | 180 |
| Two cooks, at \$120 each..... | 240 |
| Three cooks, at \$60 each..... | 180 |
| Five nurses, at \$180 each | 900 |
| Two female keepers at workhouse, at \$300 each | 600 |
| One teacher..... | 300 |
| | <hr/> 59,555 |

Very respectfully,

WALTER H. STOUTENBURGH,
Intendant, Washington Asylum.

The Hon. COMMISSIONERS DISTRICT OF COLUMBIA.

STATISTICAL TABLES.

WORKHOUSE.

| | |
|---|-------------|
| Prisoners in workhouse July 1, 1885..... | 207 |
| Prisoners received..... | 2,758 |
| | <hr/> 2,965 |
| Prisoners discharged..... | 2,723 |
| Prisoners eloped | 42 |
| Prisoners died..... | 2 |
| | <hr/> 2,767 |
| Total number remaining in workhouse June 30, 1886 | 198 |

COLOR AND SEX.

| | |
|-----------------------|-------------|
| White males..... | 996 |
| White females | 197 |
| Colored males..... | 1,146 |
| Colored females | 419 |
| | <hr/> 2,758 |

CHARGES.

| | | | |
|---------------------------------------|-------|--|---|
| Disorderly | 1,042 | Disorderly and destroying private property | 3 |
| Vagrancy | 1,039 | Violating cart law..... | 2 |
| Profanity | 379 | Disorderly and refusing to pay hack hire | 2 |
| Carrying concealed weapons..... | 60 | Profanity and concealed weapons | 2 |
| Indecent exposure..... | 50 | Refusing to pay hack hire..... | 2 |
| Trespass on park | 36 | Playing ball in street..... | 2 |
| Throwing stones..... | 24 | Obstructing street..... | 2 |
| Destroying private property | 19 | Building fire in street | 2 |
| Cruelty to animals..... | 15 | Violating hack law..... | 2 |
| Disorderly and concealed weapons..... | 13 | Driving over payment..... | 1 |
| Obstructing poundmaster..... | 7 | Placing dirt in street | 1 |
| Destroying public property | 6 | Enticing prostitution..... | 1 |
| Fast driving..... | 5 | Selling liquor on Sunday..... | 1 |
| Disturbing church..... | 4 | | |
| Disorderly and profanity..... | 3 | | |

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| | | | |
|--------------------------------------|---|-------------------------------------|-------|
| Profanity and fast driving..... | 1 | Fast driving and concealed weap- | |
| Wasting Potomac water | 1 | ons | 1 |
| Selling liquor without license. | 1 | Keeping unlicensed bar..... | 1 |
| Vagrancy and concealed weapons . | 1 | Refusing to assist a Metropolitan | |
| Throwing stones and disorderly... | 1 | police officer | 1 |
| Disorderly and indecent exposure . | 1 | Bathing in river at unlawful hours. | 1 |
| Vagrancy and destroying private | | Concealed weapons and firing pistol | |
| property | 1 | in street..... | 1 |
| Disorderly and vagrancy..... | 1 | Eloped and recaptured..... | 19 |
| Concealed weapons and disturbing | | | |
| church | 1 | Total | 2,758 |

NATIVITY OF INMATES.

| | | | |
|---------------------------|-----|----------------------|-------|
| District of Columbia..... | 963 | Dakota | 1 |
| Virginia | 584 | New Hampshire | 1 |
| Maryland | 409 | Wisconsin | 1 |
| New York..... | 110 | West Virginia | 1 |
| Pennsylvania | 98 | South Carolina | 1 |
| Massachusetts..... | 36 | Arkansas..... | 1 |
| Ohio | 21 | Ireland | 243 |
| North Carolina | 18 | Germany | 61 |
| New Jersey..... | 17 | England | 44 |
| Illinois..... | 16 | Canada | 8 |
| Georgia | 12 | Scotland | 7 |
| Missouri | 11 | Denmark..... | 4 |
| Kentucky | 7 | Italy | 4 |
| Indiana | 7 | Sweden | 3 |
| Connecticut..... | 6 | Switzerland | 3 |
| Louisiana | 6 | Russia | 2 |
| Florida | 6 | West Indies | 2 |
| Alabama | 6 | China | 2 |
| Mississippi | 6 | France | 1 |
| Rhode Island..... | 5 | Turkey | 1 |
| Delaware | 3 | Spain | 1 |
| Maine | 3 | Norway | 1 |
| Tennessee | 2 | Bohemia | 1 |
| Texas | 2 | Greece | 1 |
| Iowa..... | 2 | Persia | 1 |
| Minnesota..... | 1 | South America | 1 |
| Michigan | 1 | At sea..... | 1 |
| Nebraska | 1 | | |
| California | 1 | Total | 2,758 |

ALMSHOUSE.

| | |
|---|-----|
| Number of poor in almshouse July 1, 1885 | 123 |
| Number of poor received | 291 |
| Total | 414 |
| Number of poor discharged..... | 277 |
| Total number remaining in almshouse June 30, 1886 | 137 |

NATIVITY.

| | | | |
|---------------------------|----|---------------------|-----|
| District of Columbia..... | 41 | Georgia | 1 |
| Virginia | 59 | Florida | 1 |
| New York..... | 23 | Tennessee | 1 |
| Maryland | 18 | Ireland | 70 |
| Pennsylvania | 15 | Germany | 20 |
| New Hampshire | 4 | England | 7 |
| Kentucky | 4 | Switzerland | 2 |
| Illinois..... | 3 | Scotland | 2 |
| Arkansas..... | 2 | Canada | 2 |
| Delaware | 2 | Russia | 1 |
| Ohio | 2 | Greece | 1 |
| West Virginia | 2 | Hungary | 1 |
| Massachusetts..... | 1 | South America | 1 |
| Connecticut..... | 1 | Unknown | 2 |
| North Carolina | 1 | | |
| New Jersey | 1 | Total | 291 |

COLOR AND SEX.

| | |
|-----------------------|-----|
| White males | 174 |
| White females | 49 |
| Colored males | 39 |
| Colored females | 29 |
| Total | 291 |

RECAPITULATION.

| | |
|--|-----|
| Daily average number of inmates in workhouse | 223 |
| Daily average number of inmates in almshouse | 136 |
| Daily average number of inmates in hospital | 77 |
| Daily average number employes | 28 |
| | 464 |

Coffins furnished health office and used at asylum and burials in Potter's Field from July 1 1885, to June 30, 1886.

| Months. | Coffins furnished health office. | Coffins used at the Asylum. | Burials in Potter's Field. |
|-----------------|----------------------------------|-----------------------------|----------------------------|
| July | 47 | 11 | 46 |
| August | 37 | 6 | 42 |
| September | 39 | 4 | 39 |
| October | 35 | 10 | 31 |
| November | 21 | 7 | 28 |
| December | 36 | 2 | 36 |
| January | 33 | 4 | 33 |
| February | 34 | 7 | 41 |
| March | 40 | 4 | 39 |
| April | 43 | 3 | 47 |
| May | 40 | 4 | 45 |
| June | 39 | 4 | 42 |
| | 444 | 66 | 469 |

Credit due asylum for year ending June 30, 1886:

| | |
|--|--------------|
| For labor of prisoners on street work and cleaning markets | \$25, 194 00 |
| Produce from farm, &c. | 3, 367 42 |
| Coffins furnished health department (444) | 666 00 |
| Pay and board of ambulance driver | 240 00 |
| Keep of horse, and repairs to ambulance and harness | 220 00 |

Total..... 29,687 42

I submit the following table showing the daily average number of inmates in the institution for the last ten years:

| | |
|---|-----|
| From July 1, 1876, to June 30, 1877 | 312 |
| From July 1, 1877, to June 30, 1878 | 319 |
| From July 1, 1878, to June 30, 1879 | 327 |
| From July 1, 1879, to June 30, 1880 | 341 |
| From July 1, 1880, to June 30, 1881 | 351 |
| From July 1, 1881, to June 30, 1882 | 360 |
| From July 1, 1882, to June 30, 1883 | 361 |
| From July 1, 1883, to June 30, 1884 | 397 |
| From July 1, 1884, to June 30, 1885 | 447 |
| From July 1, 1885, to June 30, 1886 | 436 |

W. H. STOUTENBURGH,
Intendant, Washington Asylum.

376 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

WASHINGTON ASYLUM HOSPITAL, 1886.

SIR: I have the honor to submit the following annual report of the Washington Asylum hospital for the year ended June 30, 1886:

| | |
|--|-----|
| Number admitted from July 1, 1885, to June 30, 1886..... | 411 |
| Number of births..... | 25 |
| Remaining in hospital July 1, 1885..... | 88 |

| | |
|-------------|-----|
| Total | 524 |
|-------------|-----|

| | |
|--|-----|
| Number discharged from July 1, 1885, to June 30, 1886..... | 375 |
|--|-----|

| | |
|--|----|
| Number of deaths..... | 69 |
| Remaining in hospital June 30, 1886..... | 80 |

| | |
|-------------|-----|
| Total | 524 |
|-------------|-----|

CLASSIFICATION.

| | |
|--------------------|-----|
| White males..... | 177 |
| White females..... | 181 |

| | |
|------------------|-----|
| Total white..... | 358 |
|------------------|-----|

| | |
|--------------------|----|
| Colored males..... | 72 |
|--------------------|----|

| | |
|----------------------|----|
| Colored females..... | 94 |
|----------------------|----|

| | |
|--------------------|-----|
| Total colored..... | 166 |
|--------------------|-----|

NATIVITY.

| | | | |
|---------------------------|-----|--------------------|----|
| District of Columbia..... | 88 | Louisiana..... | 1 |
| Virginia..... | 101 | Maine..... | 1 |
| Maryland..... | 57 | West Virginia..... | 1 |
| Pennsylvania..... | 25 | Mississippi..... | 1 |
| New York..... | 16 | Ireland..... | 59 |
| Massachusetts..... | 8 | Germany..... | 22 |
| North Carolina..... | 5 | England..... | 6 |
| New Jersey..... | 3 | Canada..... | 2 |
| Illinois..... | 3 | Austria..... | 1 |
| Connecticut..... | 2 | France..... | 1 |
| Ohio..... | 2 | Russia..... | 1 |
| Arkansas..... | 1 | Scotland..... | 1 |
| Georgia..... | 1 | Turkey..... | 1 |
| Kentucky..... | 1 | | |

CAUSES OF DEATH.

| | | | |
|--------------------------|----|--------------------------------|---|
| Senile debility..... | 19 | Cerebral hemorrhage..... | 1 |
| Syphilis..... | 9 | Cerebritis, with effusion..... | 1 |
| Diarrhœa..... | 5 | Congestion of lungs..... | 1 |
| Senile gangrene..... | 4 | Cancer of uterus..... | 1 |
| Asthma..... | 3 | Gastritis..... | 1 |
| Chronic diarrhœa..... | 3 | General paralysis..... | 1 |
| Anasarca..... | 2 | Pharyngitis..... | 1 |
| Epilepsy..... | 2 | Phthisis pulmonalis..... | 1 |
| Hemiplegia..... | 2 | Opium habit..... | 1 |
| Pleuritis..... | 2 | Tubercular peritonitis..... | 1 |
| Accident..... | 1 | Typhoid fever..... | 1 |
| Hereditary syphilis..... | 1 | Scarlatina maligna..... | 1 |
| Mania..... | 1 | Unknown..... | 1 |

| | |
|---|--------|
| Number of prescriptions compounded..... | 25,552 |
|---|--------|

I would again call attention to the importance of securing a better class of nurses, and this can only be done by increasing their pay.

We need very much a new building to replace the old lying-in-ward which is totally unfit for use. This, with the new ward about to be erected for white females, would give us a very good set of hospital buildings, likely to be sufficient for the needs of the institution for a number of years.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 377

The office of the resident physician has been much improved, and made more comfortable.

It has often been mentioned in previous reports that the small-pox hospital is in dangerous proximity to the Asylum, but the necessity for its removal cannot be too much urged.

The sanitary condition of the hospital has been good throughout the year, as has also been that of the almshouse and workhouses.

Very respectfully,

THOS. I. CHEW, M. D.
Visiting Physician, Washington Asylum.

W. H. STOUTENBURGH,
Intendant, Washington Asylum.

O.—REPORT OF THE CHIEF OF THE SPECIAL ASSESSMENT DIVISION.

OFFICE OF THE COMMISSIONERS, DISTRICT OF COLUMBIA,
SPECIAL ASSESSMENT DIVISION,
Washington, November 1, 1886.

GENTLEMEN: I have the honor to submit the following report for the year ending June 30, 1886:

DRAWBACK CERTIFICATES.

| | |
|---|--------------|
| Total amount of drawback certificates found due by revision of the special assessments, under acts of Congress approved June 19, 1878, June 27, 1879, and July 5, 1884, exclusive of amount due to unknown holders of lien certificates not presented | \$953,245 25 |
| Total amount of drawback certificates issued | 941,361 08 |
| Awaiting satisfactory evidence of ownership | 11,884 17 |
| Amount of such drawback certificates redeemed: | |
| In payment of general taxes | \$379,823 26 |
| In payment of special assessments | 548,574 37 |
| Outstanding | 12,963 45 |
| Total | 941,361 08 |

EIGHT PER CENT. CERTIFICATES OF INDEBTEDNESS.

| | |
|--|--------------|
| Amount outstanding as per report to June 30, 1885 | \$292,400 00 |
| Redeemed in payment of special assessments as per records of this office, par | \$36,100 00 |
| Redeemed by the commissioner of the sinking fund as per information kindly furnished from his office | 7,800 00 |
| | 43,900 00 |
| Outstanding, par | 248,500 00 |
| To which should be added accrued interest at 6 per cent. per annum from maturity, estimated as \$180,000. | |

UNCOLLECTED SPECIAL ASSESSMENTS PLEDGED TO THE REDEMPTION OF THE 8 PER CENT. CERTIFICATES OF INDEBTEDNESS.

| | |
|---|--------------|
| Amount outstanding June 30, 1885, as per annual report | \$454,549 72 |
| Collected for account of lien certificate exclusive of interest | \$48,387 52 |
| Collected for general account, no lien certificate issued. | 658 56 |
| | 49,046 08 |
| Outstanding | 405,503 64 |

This statement does not include the accrued interest at the rate of 10 per cent. per annum upon the lien certificates held by the commissioner of the sinking fund, nor the amounts charged to the several street railroad companies which remain unpaid upon the records of this office.

LIEN CERTIFICATES NOT HELD BY THE COMMISSIONER OF THE SINKING FUND.

| | |
|--|-------------|
| Amount of outstanding lien certificates issued by the late board of public works and not held by the commissioner of the sinking fund, for the redemption of which there are outstanding special assessments, (for detailed statement, see Appendix I), par..... | \$91,653 72 |
| Amount of outstanding lien certificates subject to redemption in drawback certificates upon presentation and demand (for detailed statement, see Appendix II,) par..... | 301 97 |
| Total outstanding lien certificates exclusive of interest..... | 91,955 69 |

The act of Congress approved July 5, 1884, in connection with the act approved June 19, 1878, has enabled this office to effect a settlement with the holders of these lien certificates for the amount of the reduction by revision of the assessments, with the exception of the \$301.97 above stated, which lien certificates are held by owners who have not made themselves known to the office.

The amount of drawback certificates received for account of the sinking fund and, after examination, transmitted to the auditor of the District of Columbia in accordance with orders dated April 17, 1880, July 1, 1880, and March 8, 1881, during the year was \$17,893.16, a detailed statement of which will be found in Appendix III.

The amount of lien certificates held by third parties settled by payment and surrender was \$12,320.18, interest included, a detailed statement of which will be found in Appendix IV.

I again, as in my annual reports for 1883, 1884, and 1885, invite your attention to the amount of unpaid special assessments standing upon the records of this office, and recommend such action by the Commissioners of the District of Columbia as will secure more stringent legislation to enforce the settlement of these accounts, so long in arrears, by sale of the delinquent property, and vesting in the purchaser a satisfactory title, which cannot be done under existing law.

Very respectfully,

WM. OSCAR ROOME,
Chief of Special Assessment Division.

To the COMMISSIONERS OF DISTRICT COLUMBIA.

APPENDIX I.—Statement of outstanding lien certificates issued by the late Board of Public Works and not held by the commissioner of the sinking fund.

| Number of lien. | Amount. | Number of lien. | Amount. | Number of lien. | Amount. |
|-----------------|----------|-----------------|----------|-----------------|---------|
| 5..... | \$187 08 | 486..... | \$369 88 | 587..... | \$49 53 |
| 50..... | 37 35 | 487..... | 122 20 | 588..... | 34 98 |
| 51..... | 130 72 | 488..... | 225 63 | 591..... | 79 86 |
| 149..... | 41 16 | 496..... | 134 36 | 592..... | 40 01 |
| 171..... | 79 30 | 500..... | 46 17 | 593..... | 28 30 |
| 172..... | 86 05 | 507..... | 48 10 | 600..... | 38 48 |
| 177..... | 109 40 | 521..... | 35 11 | 602..... | 69 46 |
| 181..... | 310 08 | 522..... | 18 04 | 603..... | 182 56 |
| 182..... | 171 80 | 523..... | 13 99 | 609..... | 43 73 |
| 189..... | 27 01 | 525..... | 55 46 | 616..... | 28 05 |
| 200..... | 177 16 | 533..... | 165 84 | 621..... | 47 56 |
| 206..... | 396 03 | 534..... | 207 00 | 622..... | 31 92 |
| 279..... | 97 40 | 535..... | 69 41 | 624..... | 40 93 |
| 280..... | 173 61 | 539..... | 124 27 | 630..... | 8 67 |
| 341..... | 84 69 | 540..... | 92 31 | 631..... | 25 07 |
| 347..... | 399 11 | 541..... | 43 01 | 632..... | 22 50 |
| 353..... | 34 21 | 542..... | 43 02 | 633..... | 47 56 |
| 354..... | 60 98 | 545..... | 96 64 | 645..... | 42 69 |
| 410..... | 19 40 | 546..... | 124 37 | 646..... | 38 47 |
| 414..... | 72 97 | 557..... | 52 77 | 647..... | 38 47 |
| 421..... | 61 53 | 571..... | 104 83 | 648..... | 37 88 |
| 484..... | 436 94 | 572..... | 44 77 | 653..... | 92 00 |
| 485..... | 42 75 | 573..... | 44 77 | 674..... | 836 55 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 379

APPENDIX I.—Statement of outstanding lien certificates, &c.—Continued.

| Number of lien. | Amount. | Number of lien. | Amount. | Number of lien. | Amount. |
|-------------------|----------|-----------------|----------|-----------------|------------|
| 698. | \$384 39 | 2014. | \$153 51 | 2482. | \$111 05 |
| 703. | 105 57 | 2015. | 671 06 | 2483. | 111 05 |
| 777. | 106 57 | 2016. | 89 00 | 2484. | 111 05 |
| 778. | 45 18 | 2019. | 194 00 | 2485. | 111 05 |
| 802. | 252 02 | 2020. | 158 88 | 2486. | 111 05 |
| 806. | 252 02 | 2021. | 158 53 | 2504. | 246 80 |
| 838. (vel 19077). | 358 02 | 2026. | 139 15 | 2588. | 134 06 |
| 838. | 172 32 | 2027. | 116 59 | 2589. | 119 65 |
| 839. | 665 58 | 2034. | 498 37 | 2666. | 116 40 |
| 910. | 161 39 | 2035. | 98 36 | 2762. | 70 32 |
| 914. | 131 42 | 2036. | 93 82 | 2763. | 4 |
| 969. | 135 01 | 2041. | 117 22 | 2786. | 351 60 |
| 982. | 147 06 | 2057. | 109 12 | 2789. | 461 51 |
| 990. | 109 42 | 2059. | 123 91 | 2813. | 74 28 |
| 991. | 222 34 | 2094. | 132 66 | 3017. | 98 33 |
| 1004. | 542 60 | 2097. | 228 77 | 3033. | 53 34 |
| 1008. | 159 19 | 2098. | 249 32 | 3057. | 73 34 |
| 1021. | 642 60 | 2103. | 285 44 | 3094. | 1 39 |
| 1114. | 89 63 | 2104. | 301 89 | 3147. | 134 50 |
| 1119. | 158 48 | 2105. | 285 44 | 3148. | 126 43 |
| 1120. | 56 71 | 2106. | 285 44 | 3154. | 137 09 |
| 1134. | 84 45 | 2107. | 285 44 | 3155. | 137 09 |
| 1142. | 130 74 | 2108. | 301 89 | 3162. | 126 43 |
| 1146. | 64 39 | 2109. | 301 89 | 3165. | 126 43 |
| 1147. | 89 34 | 2110. | 149 73 | 3194. | 226 08 |
| 1148. | 148 70 | 2116. | 263 04 | 3246. | 332 07 |
| 1178. | 174 74 | 2117. | 290 82 | 3247. | 332 07 |
| 1179. | 123 20 | 2118. | 290 81 | 3248. | 332 07 |
| 1208. | 161 73 | 2119. | 290 81 | 3249. | 332 07 |
| 1217. | 947 11 | 2120. | 312 19 | 3296. | 200 00 |
| 1243. | 30 37 | 2121. | 150 79 | 3318. | 93 83 |
| 1302. | 432 02 | 2122. | 150 79 | 3353. | 68 62 |
| 1353. | 68 98 | 2150. | 314 15 | 3354. | 68 62 |
| 1377. | 281 41 | 2151. | 299 90 | 3355. | 68 62 |
| 1378. | 771 53 | 2152. | 316 40 | 3378. | 7, 068 00 |
| 1431. | 128 85 | 2153. | 317 17 | 3379. | 4, 103 30 |
| 1514. | 224 20 | 2154. | 302 41 | 3380. | 716 80 |
| 1526. | 107 38 | 2179. | 95 75 | 3381. | 11, 842 00 |
| 1527. | 107 37 | 2181. | 578 06 | 3382. | 7, 577 00 |
| 1528. | 107 37 | 2191. | 88 68 | 3383. | 2, 894 50 |
| 1529. | 107 37 | 2195. | 25 67 | 3384. | 444 80 |
| 1530. | 107 37 | 2207. | 24 14 | 3385. | 7, 362 00 |
| 1531. | 107 37 | 2209. | 129 58 | 3386. | 1, 052 80 |
| 1533. | 107 37 | 2210. | 129 58 | 3407. | 601 54 |
| 1534. | 107 37 | 2215. | 94 14 | 3410. | 262 04 |
| 1535. | 107 37 | 2216. | 233 38 | 3412. | 867 04 |
| 1536. | 107 37 | 2217. | 253 37 | 3413. | 1, 078 63 |
| 1537. | 107 37 | 2218. | 253 37 | 3428. | 86 70 |
| 1538. | 107 37 | 2221. | 464 90 | 3437. | 20 00 |
| 1539. | 107 37 | 2225. | 13 95 | 3438. | 43 68 |
| 1543. | 5 91 | 2227. | 92 99 | 3439. | 9 69 |
| 1564. | 132 19 | 2250. | 239 74 | 3441. | 55 48 |
| 1565. | 273 57 | 2291. | 238 70 | 3442. | 69 35 |
| 1566. | 273 57 | 2344. | 147 77 | 3443. | 69 35 |
| 1589. | 79 53 | 2363. | 84 95 | 3446. | 48 08 |
| 1594. | 118 02 | 2364. | 84 95 | | |
| 1613. | 106 21 | 2402. | 100 07 | | |
| 1621. | 102 96 | 2403. | 17 16 | | |
| 1637. | 356 07 | 2404. | 17 16 | | |
| 1660. | 147 51 | 2405. | 17 16 | | |
| 1671. | 777 38 | 2406. | 17 16 | | |
| 1672. | 590 03 | 2407. | 17 16 | | |
| 1680. | 936 31 | 2408. | 17 16 | | |
| 1681. | 289 38 | 2409. | 17 16 | | |
| 1682. | 404 47 | 2410. | 17 16 | | |
| 1787. | 87 53 | 2411. | 17 16 | | |
| 1903. | 62 33 | 2412. | 17 16 | | |
| 1910. | 95 83 | 2413. | 12 40 | | |
| 1932. | 181 04 | 2414. | 12 40 | | |
| 1933. | 121 25 | 2415. | 9 54 | | |
| 1934. | 95 68 | 2416. | 12 40 | | |
| 1939. | 122 15 | 2426. | 19 06 | | |
| 1940. | 122 16 | 2430. | 38 10 | | |
| 1953. | 150 61 | 2476. | 647 85 | | |
| 1979. | 291 93 | 2477. | 111 05 | | |
| 1982. | 158 88 | 2478. | 111 05 | | |
| 1997. | 264 27 | 2479. | 111 05 | | |
| 2006. | 99 91 | 2480. | 111 05 | | |
| 2013. | 138 44 | 2481. | 111 05 | | |
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380 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

APPENDIX II.—Statement of amounts of outstanding lien certificates subject to redemption in drawback certificates upon presentation and demand.

| No. of lien. | Amount. | No. of lien. | Amount. | No. of lien. | Amount. |
|--------------|---------|--------------|---------|--------------|---------|
| 1650..... | \$37 00 | 1933..... | \$15 97 | 3390..... | \$54 36 |
| 1681..... | 38 74 | 3387..... | 32 00 | 3411..... | 36 17 |
| 1682..... | 54 13 | 3388..... | 24 70 | | |
| 1912..... | 5 09 | 3389..... | 3 81 | | 301 97 |

APPENDIX III.—Statement of drawback certificates received for account of sinking fund by this division, in accordance with orders of Commissioners of the District of Columbia, dated April 17, 1880, and July 1, 1880, and transmitted to the auditor, District of Columbia, under order of Commissioners of the District of Columbia, dated March 8, 1881, from June 30, 1885, to June 30, 1886.

| Date. | Amount. | Date. | Amount. | Date. | Amount. |
|-------------|----------|--------------|----------|--------------|-----------|
| 1885. | | 1885. | | 1885. | |
| July 1..... | \$31 44 | Aug. 13..... | \$235 49 | Nov. 17..... | \$37 83 |
| 2..... | 36 49 | 18..... | 63 03 | 24..... | 2 39 |
| 3..... | 128 52 | 20..... | 424 11 | Dec. 2..... | 26 77 |
| 6..... | 70 21 | 24..... | 959 19 | 11..... | 9 95 |
| 8..... | 249 14 | 25..... | 728 81 | 15..... | 145 40 |
| 9..... | 102 37 | 26..... | 660 58 | 1886. | |
| 11..... | 1,628 11 | 29..... | 40 14 | Jan. 9..... | 11 79 |
| 13..... | 39 30 | 31..... | 112 57 | 22..... | 27 99 |
| 14..... | 383 04 | Sept. 1..... | 188 13 | 29..... | 156 91 |
| 16..... | 39 44 | 2..... | 756 75 | Feb. 1..... | 3 79 |
| 17..... | 142 23 | 3..... | 1,663 31 | 19..... | 5 42 |
| 23..... | 294 98 | 4..... | 1,373 51 | 15..... | 23 26 |
| 24..... | 861 04 | 5..... | 195 46 | 23..... | 21 89 |
| 25..... | 20 82 | 8..... | 70 52 | Mar. 20..... | 2 56 |
| 27..... | 105 35 | 9..... | 118 31 | 25..... | 51 39 |
| 29..... | 211 69 | 10..... | 100 05 | Apr. 1..... | 30 53 |
| 31..... | 2,261 57 | 11..... | 40 24 | 20..... | 4 37 |
| Aug. 1..... | 640 54 | 17..... | 86 76 | 29..... | 212 22 |
| 3..... | 248 11 | 18..... | 296 58 | 30..... | 10 23 |
| 5..... | 37 14 | 19..... | 34 54 | May 1..... | 7 28 |
| 6..... | 12 52 | Oct. 2..... | 69 72 | 26..... | 194 32 |
| 7..... | 617 97 | 8..... | 50 95 | June 21..... | 13 01 |
| 10..... | 140 08 | 9..... | 6 00 | | |
| 11..... | 150 98 | 10..... | 67 13 | | 17,893 16 |
| 12..... | 96 12 | Nov. 12..... | 2 78 | | |

APPENDIX IV.—Statement of payments made on account of lien certificates issued by the late board of public works and not held by the commissioner of the sinking fund.

| Number of lien. | Date of pay- ment. | Amount, inclusive of interest. | To whom paid. |
|-------------------|-----------------------|--------------------------------------|--|
| | 1885. | | |
| 846..... | July 2 | \$177 70 | A. J. Robinson. |
| 348..... | Aug. 5 | 55 05 | William Yorke At Lee. |
| 3121..... | Sept. 1 | 132 83 | William Yorke At Lee, by surrender. |
| 70 (county)..... | Sept. 21 | 122 58 | William Yorke At Lee, by partial cancellation. |
| 2126..... | Sept. 26 | 90 25 | By surrender. |
| 102 (county)..... | Sept. 30 | 12 13 | Do. |
| 2127..... | Oct. 2 | 54 48 | Do. |
| 2128..... | Oct. 2 | 122 11 | Do. |
| 77 (county)..... | Oct. 24 | 43 75 | William Yorke At Lee, by surrender. |
| 1677..... | Oct. 24 | 161 78 | Do. |
| 1676..... | Oct. 24 | 489 20 | Do. |
| 1674..... | Oct. 24 | 244 38 | Do. |
| 642..... | Oct. 24 | 1,289 50 | Do. |
| 1675..... | Oct. 24 | 488 73 | Do. |
| 1680..... | Oct. 30 | 147 51 | By partial cancellation. |
| 2630..... | Nov. 2 | 126 20 | By surrender. |
| 372..... | Nov. 3 | 35 82 | Charles S. Johnson, by surrender. |
| 3 (county)..... | Nov. 3 | 102 00 | Do. |
| 12 (county)..... | Nov. 4 | 22 25 | William Yorke At Lee. |
| | Nov. 4 | 11 05 | Do. |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 381

APPENDIX IV.—Statement of payments made on account of lien certificates issued by the late board of public works, &c.—Continued.

| Number of lien. | Date of payment. | Amount, inclusive of interest. | To whom paid. |
|-----------------------|------------------|--------------------------------|--|
| | 1885. | | |
| 522 | Nov. 5 | \$44 70 | William Yorke At Lee, by partial cancellation. |
| 523 | Nov. 5 | 30 86 | Do. |
| 634 | Nov. 16 | 129 34 | S. J. Block, by surrender. |
| 1943 | Nov. 19 | 247 59 | Do. |
| 1011 | Nov. 19 | 121 06 | William W. Boarman, by surrender. |
| 1012 | Nov. 19 | 121 06 | Do. |
| 1013 | Nov. 19 | 121 05 | Do. |
| 1014 | Nov. 19 | 121 06 | Do. |
| 1015 | Nov. 19 | 121 06 | Do. |
| 1016 | Nov. 19 | 121 06 | Do. |
| 1017 | Nov. 19 | 121 06 | Do. |
| 1018 | Nov. 19 | 121 06 | Do. |
| 1019 | Nov. 19 | 121 06 | Do. |
| 1020 | Nov. 19 | 116 48 | Do. |
| 116 (county) | Nov. 21 | 5 33 | William Yorke At Lee. |
| 89 (county) | Nov. 27 | 76 93 | William Yorke At Lee, by surrender. |
| 1118 | Dec. 11 | 126 99 | B. H. Warner, by surrender. |
| 2616 | Dec. 22 | 113 02 | William Yorke At Lee, by surrender. |
| 975 | Dec. 22 | 166 68 | Do. |
| 592 | Dec. 23 | 48 19 | William Yorke At Lee, by partial cancellation. |
| 3439 | Dec. 31 | 39 71 | E. K. Lundy, by partial cancellation. |
| | 1886. | | |
| 1945 | Jan. 4 | 100 66 | J. H. Knoch, by surrender. |
| 70 (county) | Jan. 6 | 32 40 | William Yorke At Lee, by surrender. |
| 3120 | Jan. 6 | 287 86 | John R. Dale. |
| 1917 | Jan. 12 | 360 46 | By surrender. |
| 1918 | Jan. 12 | 312 97 | Do. |
| 1520 | Jan. 12 | 36 18 | Do. |
| 602 | Jan. 12 | 17 98 | By partial cancellation. |
| 3430 | Jan. 23 | 135 83 | Mary Ready. |
| 52 (county) | Jan. 23 | 12 13 | By surrender. |
| 24 (Georgetown) | Jan. 25 | 149 40 | G. W. Cassilear, by surrender. |
| 1010 | Jan. 29 | 555 81 | John F. Cox, by surrender. |
| 603 | Feb. 3 | 416 34 | Charles B. Church, by partial cancellation. |
| 30 (county) | Feb. 6 | 6 06 | Michael White, by surrender. |
| 1998 | Feb. 15 | 291 90 | S. J. Block, by surrender. |
| 94 (county) | Feb. 15 | 75 67 | Do. |
| 63 (county) | Feb. 16 | 144 06 | Do. |
| 602 | Feb. 17 | 17 98 | William Yorke At Lee, by partial cancellation. |
| 602 | Feb. 17 | 38 49 | Do. |
| 68 (county) | Feb. 19 | 106 18 | John F. Cox, by surrender. |
| 2546 | Feb. 23 | 116 19 | Stiger & Lieberman, by surrender. |
| 56 (county) | Mar. 3 | 63 69 | By surrender. |
| 75 (county) | Mar. 6 | 198 15 | William Yorke At Lee, by partial cancellation. |
| 1554 | Mar. 10 | 84 03 | By surrender. |
| 2099 | Mar. 11 | 232 88 | John F. Cox, by surrender. |
| 2100 | Mar. 11 | 232 88 | Do. |
| 2101 | Mar. 11 | 249 33 | Do. |
| 1026 | Mar. 11 | 878 80 | By surrender. |
| 55 (county) | Apr. 8 | 84 39 | William Yorke At Lee, by partial cancellation. |
| 1790 | Apr. 8 | 17 39 | William Yorke At Lee, by surrender. |
| 84 (county) | Apr. 22 | 259 70 | Do. |
| 1942 | May 11 | 132 02 | Leon Tobriner, by surrender. |
| 54 (county) | May 14 | 6 06 | William Yorke At Lee, by surrender. |
| 1936 | May 14 | 175 66 | Leon Tobriner, by surrender. |
| 3446 | May 18 | 27 54 | Mary Ready, first instalment. |
| 583 | June 24 | 110 62 | G. Y. At Lee, by surrender. |
| 765 | June 29 | 81 54 | Frank T. Rawlings, by surrender. |
| 766 | June 29 | 106 30 | Do. |
| Total | | 12,320 18 | |

P.—REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

OFFICE OF SEALER OF WEIGHTS AND MEASURES,
DISTRICT OF COLUMBIA,
Washington, D. C., November 4, 1886.

GENTLEMEN: I have the honor to report that the duties of my office for the year ending July 31, 1886, have been performed in the same manner as in former years, and nothing has transpired during the year to complain of.

The duties of my office require me to keep a strict watch over the instruments used in weighing and measuring goods of every description, in order that no person may be cheated when making purchases at the stores or markets in this District.

There is law governing the sale of certain articles in this District, for instance: bread, coal, corn, potatoes, oats, rye, wheat, &c.

I will take the liberty of laying before your honorable board a few ideas that at times look to me as being of great importance to consumers. For the last twenty years a great change has taken place in the manner of procuring supplies for the increasing population throughout the entire country. The District of Columbia, with a population of 75,000 in 1860; 131,700 in 1870; 187,638 in 1880; and nearly 210,000 at the present time, requires three times the quantity to supply the demand now that it did twenty years ago, and as it is necessary to receive supplies from other sources besides those from our surrounding country, is the reason I desire to open up a subject which I referred to on a former occasion. I refer to goods sold in packages, the products of the farm as well as those of the factory. Goods of almost every description are sent to the trade with no visible mark of ascertaining their true weight or measure. Around our markets the old system of selling poultry by the piece, pair, or dozen is obsolescent, and such are now sold by weight, not because of any law requiring the dealer to dispose of them in that manner, but because it is the fairest way for both parties.

The improvements made in weighing-balances the last few years is so great, that a scale can now be made so fine as to weigh the ten-thousandth part of an ounce, or strong enough to weigh a canal-boat or a train of railroad cars. There can be no excuse for the packer or shipper of goods not giving the true weight or measure in all packages, large or small, that he may place upon the market. Look at the quantity of goods sold by the package. In every store, on every shelf, in every mart, goods in packages are displayed; in the grocery, dry-goods, hardware, drug, and other stores, they are to be seen. There never was a business practiced so extensively where the people are less enlightened than this package system. This state of things can be remedied by having a law passed requiring every person selling, or offering for sale, goods of every description in packages, whether it be a bucket of lard, a bar of soap, a can of tomatoes, a bottle of yeast-powder, a can of lobster, or a box of matches, to give a correct statement of the quantity and quality sold, or offered for sale, to the person who may buy, or offer to buy, goods of any description that cannot be seen at the time such goods are sold, or offered for sale, and by making the penalty for such offense a fine or confiscation.

I would recommend that all vegetables and fruits be sold by weight and the dry measure be abolished. I would also recommend that oysters in the shell be sold by count, or that a sworn measurer be appointed to

see that those who deal in that article be protected. Hoping that these few suggestions may be the means of throwing a little light on the business as now conducted, I am, in great respect, your obedient servant,
Very respectfully,

JAMES SMALL,
Sealer of Weights and Measures for the District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Q.—REPORT OF THE COMMISSIONERS OF PHARMACY FOR THE DISTRICT OF COLUMBIA.

OFFICE OF THE COMMISSIONERS OF PHARMACY
FOR THE DISTRICT OF COLUMBIA,
Washington, D. C., July 22, 1886.

GENTLEMEN: I have the honor to submit to you the inclosed report of the transactions of the Commissioners of Pharmacy, and beg leave at the same time to call your attention to the fact that our term of office expired on the 18th instant.

Very respectfully, yours,

CHAS. BECKER,
Secretary Commissioners of Pharmacy.

The COMMISSIONERS FOR THE DISTRICT OF COLUMBIA.

RECEIPTS.

| | | |
|---|----------|----------|
| To cash on deposit, as per report July 18, 1886..... | \$381 69 | |
| To cash received since for 21 examinations..... | 210 00 | |
| To cash received since for 23 registrations of graduates..... | 69 00 | |
| | <hr/> | \$660 69 |

EXPENDITURES.

| | | |
|--|--------|--------|
| By secretary's salary for two years..... | 150 00 | |
| By stationery, postage, &c..... | 16 50 | |
| By rent, light, fuel, janitor, &c..... | 120 00 | |
| | <hr/> | 286 50 |
| Leaving a cash balance on hand of..... | | 374 19 |

Which is on deposit in the National Bank of Washington.

There have been registered during the two years:

| | | |
|--|-------|-------|
| After passing examination..... | 16 | |
| Graduates in pharmacy..... | 23 | |
| | <hr/> | 39 |
| Previously registered, as per last report..... | | 311 |
| | | <hr/> |
| Total registrations to date..... | | 350 |

There have been held 25 examinations in all since last report, 4 of which were second examinations and without charge.

Five of the candidates failed ultimately to pass.

R.—REPORT OF THE CONDITION OF CHARITABLE INSTITUTIONS IN THE DISTRICT OF COLUMBIA.

WASHINGTON, D. C., *November 29, 1886.*

GENTLEMEN:

Referring to your verbal instructions directing me to visit and investigate the management of the various institutions of charity appropriated for out of the District revenues, in whole or in part, I have the honor to report that, in compliance with your instructions, I have personally visited the several institutions mentioned in the act of July 9, 1886, for which appropriations are therein made, and beg to submit the following as the result of my investigations:

COLUMBIA HOSPITAL.

The Columbia Hospital for Women and Lying-in Asylum, for which an appropriation of \$15,000 is made in that act, I have found, so far as I have been able to ascertain the facts, to be admirably conducted, and during the year last past on a more than ordinarily economical scale. This institution has for its object, as stated in its act of incorporation, "to found in the city of Washington a hospital and dispensary for the treatment of diseases peculiar to women, and a lying-in asylum, in which those unable to pay therefor shall be furnished with board, lodging, medicine, and medical attendance gratuitously." The institution owns and occupies a large tract of ground fronting on L street, at the corner of Twenty-fifth street, which, I am informed, was purchased out of an appropriation made for that purpose by Congress, and the title to which was required to be vested in the United States for the use of said hospital.

The main building was not originally constructed for hospital purposes, but the additions which have been made since the institution acquired title have been constructed for the special purposes of the hospital, and the old building has been altered to afford, in some measure, conveniences for an institution of this kind. In addition to the main building and the wing appurtenant, there is on the same grounds a small wooden cottage which is used for the accommodation of lying-in patients.

During the year ending June 30, 1886, there were admitted to the hospital 173 obstetrical patients, and at the beginning of the year there were nine in the hospital, making in all 182 treated during the year.

The daily average number of patients is stated in the report of the surgeon in charge for the last year at 33.45, and the cost of maintenance per patient per diem is stated to have been \$1.26½.

The amount of compensation paid to the employés was \$2,996.50, or an average of nearly \$250 per month, in addition to which there is an item of \$2,600 paid as annual salaries, so that the compensation of officers and employés together averages \$466.37 per month.

An itemized statement of the receipts and expenditures has been forwarded to the Commissioners by the officers of the hospital.

Nothing in the charter of the institution would seem to contemplate the admission of pay patients to its benefits, but by the report of the board of directors it appears that pay patients are received, and that the revenue from this source amounted, during the last fiscal year, to nearly \$3,000.

The board of directors ask an appropriation of \$10,000 for an elevation to the main building and for the extension of the laundry, and they state that these estimates have already been approved by the Commis-

sioners of the District. I am of opinion that the improvements asked for would greatly increase the facilities of the hospital and render it better suited for its purposes.

WOMAN'S CHRISTIAN ASSOCIATION.

The Woman's Christian Association, for which an appropriation of \$4,000 is made in said act, is located at No. 1719 Thirteenth street northwest.

This institution has for its object, as stated in its charter, "to afford relief and aid to the destitute, work for those seeking employment, homes for the homeless, sympathy for the friendless; to reform and restore the fallen, and bestow such Christian benevolence upon the needy as our means will allow." In carrying out this object the officers of the institution state that they have now in the institution six old ladies who are beyond helping themselves, and who, by the payment of \$100, have been received for life. They also state that there are others who pay a nominal sum for board for weeks and months at a time, who have been disabled and cannot pursue their vocations. There are also others who are without friends or means, and who remain at the home, and are protected, fed, and clothed, for which they are required to render aid in domestic work.

As an annex to the institution there is a foster home in which are cared for children who are deprived of their natural protectors.

The building originally cost \$22,000. The grounds contain about 21,000 square feet, and the buildings and grounds are worth about \$50,000.

The building was constructed for the purposes of the institution after plans prepared, as I am informed, by the Government architect. The plans contemplated the building of a front building covering the larger part of the front of the lot, with a central back building; but owing to the insufficiency of the appropriation only the central back building has been constructed up to the present time.

The institution is located in a central and improving part of the city, and the property is increasing in value, so that the investment heretofore made could be more than realized if a sale of the property should be deemed desirable. I have not been informed in whom the title to the property is at present vested, but, as the institution is chartered under the general law, I presume the title is in the trustees.

This institution has a capacity for the accommodation of 35 persons in the adult home, and 40 in the foster home. During the year 1885 there were 142 inmates cared for in the adult home, and 50 in the foster home, besides 15 mothers with babies.

The daily average of inmates in the adult home was 32, and in the foster home 33 children and 4 infants.

The amount of compensation paid to employés, as stated in the answer of the president to the Commissioners' request for information, is \$50 per month in the adult department, and \$63 per month in the foster home; besides which, \$15 per month is paid to a janitor; making in all, \$128 per month compensation.

No itemized statement of receipts and expenses for the current year has been furnished, but in the report for the year ending December 31, 1885, which has been forwarded to the Commissioners with the president's report, is contained an itemized statement of expenditures for that year.

The officers of the institution, in their answer to the Commissioners, urge the restoration of their annual appropriation to the old figure from

which it was reduced in the last appropriation bill, and ask that an appropriation be obtained to enlarge their building according to the original plan.

So far as I have been able to ascertain, the institution is fairly well managed, and has been an instrument for great usefulness in its peculiar field.

NATIONAL ASSOCIATION FOR THE RELIEF OF DESTITUTE COLORED WOMEN AND CHILDREN.

The National Association for the Relief of Destitute Colored Women and Children, for the support of which an appropriation of \$6,500 was made in said act, has for its object, as stated in its charter, "the support of such aged and indigent colored women and children as may properly come under the charge of such association, provide for them suitable home, board, clothing, and instructions, and to bring them under Christian influences." It is located on Eighth street extended, in the District of Columbia.

The secretary of the association states the value of the grounds at \$10,000 and of the building at \$38,000, but does not state what the cost has been.

The buildings consist of two two-story and basement brick structures, one 50 by 90 feet, and a wing connected with it about half the size of the main building. They were constructed for the purposes of the institution, and seem to be kept in good order and to be suitable for the purposes for which they were intended.

The grounds appurtenant are of considerable extent and are well cared for.

The capacity of the building is for about 125 children and 15 aged women.

The number of inmates during the year is stated at 129, and the daily average about 110.

The amount of compensation paid to employes during the current year was \$2,277.42. An itemized statement of the receipts and expenditures has been forwarded by the treasurer to the Commissioners.

The secretary of the association urges an increased appropriation, for the reason that the institution will accommodate about 30 more inmates than are there at present, who cannot be taken for want of means sufficient to feed and clothe them.

In the near neighborhood of the institution is an uncovered sewer which has been frequently called to the attention of the health officer, and which, it seems to me, is the source of serious danger to the lives and health of the inmates of the home. I would recommend the attention of the Commissioners to this sewer, to the end that it may be abated as a nuisance.

In the same act there was an appropriation of \$2,500 for furniture and heating apparatus for the building and for improving the grounds. This money has been judiciously expended, as far as I could judge, has been of great benefit in improving the character of the institution.

CHILDREN'S HOSPITAL.

The Children's Hospital, for which an appropriation of \$5,000 is made in said act, has for its object, as stated in its charter, "the gratuitous medical and surgical treatment of indigent children under the age of twelve years, without distinction of race, sex, or creed.

It is located on the square bounded by V and W streets north, and Twelfth and Thirteenth streets west, in this city.

The cost of the ground upon which it is located is stated at \$15,722.88, and of the buildings, \$23,662.22. The building consists of a main or central building three stories in height, besides the basement, and a wing two stories and basement in height on the east side, which were constructed for the special purposes of the institution.

The present value of the ground is estimated by a real estate agent, who is a member of the board of directors, at \$40,000, and the building at \$40,000.

The capacity of the institution is 30 in the white ward and 30 in the colored ward, besides the addition of special and isolated wards for contagious, infectious, and offensive cases, which, in an emergency, would accommodate fifteen more children.

During the year 1885 there were 285 children in the institution, 184 of whom were new admissions, one-half colored and one-half white. The daily average was $45\frac{8}{10}$ ths.

In addition to these, there were 1,821 patients treated in the dispensary, and 37 outdoor patients during the year.

The compensation paid to all of the employes amounts to \$297.50 per month, or \$3,448 per annum.

An itemized statement of the receipts and expenditures has been forwarded by the treasurer to the Commissioners.

This institution is one of the best known charities in the city, and, besides the property which it owns, has an endowment, which during the last year produced a revenue of nearly \$5,000 per annum. It is a model of neatness and order, although its management seems to be somewhat more expensive than necessary, the average cost of each patient in the institution being about 53 cents per day.

ST. ANN'S INFANT ASYLUM.

St. Ann's Infant Asylum has for its object the care of foundlings. It is located on the square bounded by Twenty-third and Twenty-fourth streets west, and K street and New Hampshire avenue.

The property cost \$25,000 and was originally an old residence of ample proportions, to which has been added from time to time additions, so that its present capacity is between 150 and 175, while its daily average of inmates is 125. The property is worth at present about \$50,000. Its charter, in addition to providing for the care of foundlings, also provides for the care of unfortunate and destitute women; and in furtherance of this end the institution, as I understand, takes in and cares for unfortunate women to a limited extent.

This institution pays between \$700 and \$800 annually for employes, and last year paid \$2,201 to wet-nurses for the care of the infants outside of the institution. It is under the charge of the Sisters of Charity of the Roman Catholic Church, and is managed with great economy. The sister superior in charge states that if it were in their power to receive all the children for whom application had been made it would require, with the greatest economy, at least \$10,000 a year for the maintenance of the institution. It has no other means of support outside of the appropriation made by Congress, except such small donations as have been given from time to time by the charitable disposed.

THE HOUSE OF THE GOOD SHEPHERD.

The House of the Good Shepherd, for which \$5,000 is appropriated in the said act, has for its object to provide a reformatory for wayward girls, and to afford a place of refuge for young women desiring or sought to be reclaimed from a life of sin, and to provide situations for such of them as evince a purpose to reform their lives.

It is located at Nos. 1107 and 1109 Ninth street northwest, Washington, D. C. The institution is located on lots A and B, in square 402, and has a front of 105 feet on Ninth street by a depth of 100 feet. The property was a gift to the institution from Miss Anna E. Smith, daughter of the late Rear-Admiral Joseph Smith, United States Navy, and was originally two buildings, which have been enlarged by an addition at a cost of about \$7,000. Besides this, an adjacent building, No. 1111 Ninth street, has been purchased for \$6,500.

The buildings and grounds are not particularly suitable for the purposes of an institution of this kind, and greatly exceed in value what it would cost to obtain ground and build a more suitable building in some other part of the city.

The present capacity of the house is between thirty-five and forty, exclusive of the Sisters in charge, who are eight in number.

The number of inmates during the year has averaged about thirty-three.

There are no employes in connection with the institution, except the eight Sisters in charge, and they receive no compensation whatever.

The institution is not supported by any appropriation out of the District revenues, in whole or in part. The \$5,000 above mentioned as having been appropriated, was for additional accommodations for the use of the institution. It is entirely supported by the industry of the inmates and the Sisters themselves. The income during the past year was about \$1,400, and the expenditures about the same.

It is suggested by one of the board of directors that formal legal authority should be obtained whereby the police court could commit girls to this institution in the proper cases, and it would seem that such an authority ought to be lodged in some competent tribunal.

The institution seems to be well and economically managed, and is of great importance to the moral health of the city.

Special attention is invited to the model report of M. F. Morris, esq., in reply to the circular letter of the Commissioners.

THE NATIONAL HOMEOPATHIC HOSPITAL ASSOCIATION.

The National Homeopathic Hospital Association, for which an appropriation of \$5,000 is contained in said act for the repair and completion of the building, has for its object, as stated in its charter, to establish and maintain a homeopathic hospital in the city of Washington. It is located at the corner of Second and N streets northwest, in a building formerly used as a public school. Congress has appropriated \$20,000 towards the purchase, repair, and completion of this building, and it is estimated to be worth, at the present time, about \$75,000.

The building is four stories high and has been sumptuously fitted and appointed. It was opened for the reception of patients in February last, and has a capacity at present for about 40 patients. Since it was opened it has received for treatment 41 pay and 15 free patients.

The daily average number of inmates is stated by the president of the board of trustees at 9, which evidently includes both pay and free patients.

The salaries paid are stated at \$175 per month.

The officers of the institution have declined to furnish an itemized statement of their expenditures, but they state their gross receipts for maintenance during the last nine months at \$6,364.39, and the expenditures for the same period at \$4,705.79.

The officers ask the aid of the Commissioners in securing from Congress a moderate appropriation for the institution, presumably for maintenance, though not so stated in their letter.

ST. ROSE INDUSTRIAL SCHOOL.

This institution, for which an appropriation of \$5,000 is made in said act to aid in enlarging the building, has for its object to teach young orphan girls of advanced years useful trades which will enable them to procure independent livings for themselves after they leave the school.

It is situated on G street, between Twentieth and Twenty-first streets. The building erected for its use and recently enlarged has a frontage of about 69 feet and a depth of 108 feet, and is four stories high.

It is reported to be worth \$38,000 for the building, and \$4,599 for the ground.

The accommodations heretofore have been for about 60 girls; but with the new addition the institution will be able to provide room for between 90 and 100.

During the present year there have been 18 girls admitted to the school, and 16 sent out to situations, of whom 2 have returned to the school. No compensation is paid to any one in connection with the institution, as the Sisters of Charity, under whose control the school is, and the inmates, all work together, and thus earn a living for themselves. The school receives nothing towards its support from the District revenues, and has no means beyond what is earned by the Sisters and pupils. It seems to be well managed, and was in admirable order when visited. I regard it as one of the best and most valuable public institutions, and, as it is self-supporting, deserves to be encouraged.

I have not been furnished with any details of its receipts and expenditures, and, as it receives nothing from the District revenues towards its support, I regard it as one of those institutions from which this information can not fairly be asked, though I presume, if desired, a statement would be cheerfully furnished.

ASSOCIATION FOR WORKS OF MERCY.

This institution, for which an appropriation of \$5,000 is made in said act to aid in paying for the premises occupied by it, has for its main object the maintenance of a home for fallen women.

It is located at No. 2408 K street, Northwest, in premises purchased in 1884, at a cost of \$17,200, upon which there yet remains a debt of \$5,500. The property is now worth about what it cost, or perhaps something more, but is not specially adapted for its present purpose, having formerly been a private residence. It can now accommodate about 12 inmates, though when fully furnished at least 20 could be provided for. It has no endowment or source of income, so far as I have been able to ascertain, except the contributions of subscribers, the donations of the charitable, and the earnings of its inmates.

It is under the control of the Episcopal Church, whose members alone are eligible as members of the organization controlling the "House of Mercy," as the reformatory is called. It seems to be economically managed, as the report of 1885 shows but \$148.51 paid as wages, and even this is claimed to have been more than will be required for the future. I am informed that no compensation is paid to the lady in charge of the house or the nursery, and that the inmates do most of the work, so that the expenses for wages are merely nominal.

The report which has been handed in for the current year does not give the expenditures for maintenance in detail; and as it is not one of the charities "aided out of the District revenues," I have not felt at liberty to ask for a more detailed statement.

The House was opened May 13, 1884, since which time it has received 40 adult inmates and 20 infants. A nursery forms a part of the House plan. It has at present adult and infant inmates.

CHURCH ORPHANAGE.

The Church Orphanage, for which an appropriation of \$1,500 is made by this act, is located at 520 Twentieth street, northwest, in this city.

I have not been able to ascertain the present cost of the building and grounds, but it is valued at present at \$15,000. It has a capacity for 70 persons comfortably, and the number of inmates during the past year was 78. The amount of compensation paid to employés is \$35 per month. A statement of receipts and expenditures accompanies the report of the treasurer, which has been sent to the Commissioners, but it is not itemized. The institution asks for an increase of its appropriation to the extent of \$5,000 to enable it to secure additional land and buildings. The institution seems to be well and economically managed, and is under the charge of a sister of one of the Church orders, who receives no compensation for her services.

WASHINGTON HOSPITAL FOR FOUNDLINGS.

This institution, for which an appropriation of \$3,500 was made in said act to complete the building erected for the use of said institution, has for its object to found in the city of Washington a hospital for the reception and support of destitute and friendless children. It is incorporated under a special act of Congress, and is endowed by the late Joshua Pierce, of this city, who, by his will, conveyed to trustees for the purpose a square of ground situated between R and S and Fourteenth and Fifteenth streets in this city. No appropriation has ever been made out of the District revenues for the support of this institution. The building, which is new and has been erected for the special purposes of the institution, is situated on the east side of Fifteenth street between R and S. It is not yet fully completed, but will cost about \$25,000.

It consists of two stories and a basement, the main building fronting 65 feet, with two wings extending toward the rear of the lot. The present building will accommodate 50 inmates with the necessary attendants. It has not yet received inmates, and no arrangement has been made in regard to employés. It is, by the act of incorporation, its duty to report to the Secretary of the Interior, and the Secretary informs me that these reports have been made and are on file in that Department. The board of directors ask the Commissioners for a recommendation to Congress in favor of the institution for an appropriation of \$5,000 to provide furniture and equipments and \$10,000 for maintenance. The Secretary's letter to the Commissioners gives a detailed statement of the purposes to which these appropriations are to be applied.

CONCLUSION.

The foregoing are all of the institutions which have furnished me with detailed reports, and which I have examined personally under your direction. I would call the attention of the Commissioners to the fact that many of these institutions are duplicating each other's work, and, as a necessary consequence, are much more expensively managed than they would be if the efforts in favor of the objects were more concentrated. It is my opinion that some plan of general control and unification could be adopted whereby the large amounts appropriated out of the District revenues for these various charities could be more prudently, more economically, and more satisfactorily applied to the objects for which the money was appropriated.

Very respectfully,

W. S. MATTHEWS.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R 1.

WASHINGTON, D. C., October 27, 1886.

To the Commissioners of the District of Columbia:

The Women's Christian Association herewith submit their answers to the questions submitted to them in your communication of October 22.

1. The Women's Christian Association Home is the name by which we are known. It was chartered December 13, 1870. The authority for such was asked "under the third section of an act of Congress to provide for the creation of corporations in the District of Columbia by general law, approved May 5, 1870." (See first page of printed report.)

Our purpose is to care for such homeless and friendless women as appeal to us for aid, giving food and shelter to those temporarily in need; helping many often to help themselves. We have six old ladies who are beyond helping themselves, who by the payment of \$100 have been received for life. When removed there are others always ready to take the vacant place. There are others who pay a nominal sum for board for weeks and months at a time, who have been disabled and cannot pursue their vocation till rest is restored. But a large proportion of those who come to us are without friends or means, and nowhere to lay their head. These, while they remain at the home, protected, fed, and clothed, are required to render aid in the domestic work. It will readily be seen that in the small amount of board required or aid rendered there is no equivalent really for what is done for them.

For further answer to this question, we would refer you to page 12 of the last report of the institution, which accompanies this.

We also have a "Foster Home," caring for children who are deprived of their natural protectors, by death, desertion, or sickness. A slight sum is paid us for the temporary aid thus given. A school teacher is provided for these children.

2. Locality, 1719 Thirteenth street, northwest.

3. The Home building was built in 1874 by an appropriation from Congress, and cost \$22,000; it is 130 feet long, 50 feet wide; 18 rooms in the Adult Home, 12 in the Foster Home; in the basement story is the kitchen, coal furnace, and store-room; a small frame building, called the nursery, is on the ground outside of these. Our ground is 150 by 140 feet. Valuation, about \$30,000.

4. Thirty-five in the Adult Home, 40 in Foster Home.

5. In 1885, 142 inmates were cared for in the Adult Home, 50 in Foster Home, with 15 mothers and babies.

6. Daily average, 32 in the Adult Home, 33 children in Foster Home; infants, 4.

7. Compensation, per month, adult department, \$50; Foster Home, \$63; janitor, \$15.

8. In treasurer's report you will find on page 16 more detailed account of the expenditures.

9. The original plan of this building, made by the Government architect, was in the form of the letter T, but the appropriation allowed only to build the stem part. We trust at no distant day that the original plan will be carried out, thus enabling us to lengthen the cords and strengthen the stakes and so care for the many who apply to us. In this capital city women are induced to come for positions in some of the Departments, for pensions, or for some insane idea, are frequently

without means or friends here. With the aid of the sanitary officer we have been able to return to distant friends many of these unfortunate ones. In several instances we have given aid and comfort to women with an incurable disease, for to such is *no hospital door open* in our city, and though we have not the hospital requirements have provided as best we could the solaces the dying need.

The lessened appropriation donated by the last Congress will cripple our efforts for the coming year, for it is with pain we turn these unfortunates "empty away."

It is confidently hoped that the honorable Commissioners will so "visit and investigate" our institution that they will recognize the good work accomplished, and our real needs, and so not only recommend that our next appropriation be as in previous years before the last, but will also so advise that our building be enlarged according to original plan, and thus carry on a work not done by any other institution in the District.

Respectfully,

RACHEL H. STRONG,
President.

MARTHA S. POMEROY,
Vice-President Women's Christian Association.

R 2.

GENTLEMEN: Your circular-letter of October 21, 1886, requesting an itemized report of the receipts and expenditures of all institutions of charity within the District of Columbia which may be appropriated for out of the District revenues, has been received.

In behalf of the National Homœopathic Hospital Association I would respectfully state that we do not feel called upon to make such a report, as we have received no appropriation from either the District revenues or the General Government for the maintenance of the hospital. The entire expense of conducting it has been paid by the volunteer subscriptions and assistance of the friends of the homœopathic practice of medicine.

The only other aid the association has had has been an appropriation of Congress of \$15,000 to assist in purchasing the hospital building and grounds, and in July last of \$5,000 more to assist in fitting it up. The itemized account for the disbursements of the first appropriation has been duly rendered to the Treasury Department and the accounts approved and audited.

But, notwithstanding we do not feel under obligations to render an itemized account of the receipts and expenditures in the maintenance of the hospital, we take pleasure in submitting the following statement:

The National Homœopathic Hospital Association was incorporated June 10, 1881, under the general incorporation act of the District of Columbia, and was immediately thereafter organized by the election of the Hon. Montgomery Blair as its president, who continued as such to the time of his death.

Its present officers are as follows:

President of the association, Chief Justice Morrison R. Waite.

Vice-president, for District of Columbia, A. S. Pratt.

Secretary, Dr. George Lee.

Board of trustees, Elias S. Hutchinson, president; Mrs. Chas. Nordhoff and Alonzo Bell, vice-presidents; Gurdon H. Wilcox, secretary; Lewis Clephane, treasurer; Mrs. Isabella M. Bittinger, Horace S. Cummings, Charles P. Culver, Mrs. G. W. Pope.

It was not until January, 1884, we were enabled to rent a building for hospital purposes. The success attending our enterprise soon convinced us that it was necessary to have a more commodious building. A committee was appointed for the purpose of securing such a one, and finally it was decided to purchase the present building at the corner of Second and N streets northwest, which had previously been used as a public-school building. We appealed to Congress to assist us in its purchase, and an appropriation of \$15,000 was made for the purpose, and in July last \$5,000 more to assist in fitting it up. We took possession of the property in November, 1885, and immediately proceeded to make the necessary alterations to adapt it to hospital purposes. In February, 1886, the hospital was opened for the reception of patients.

We respectfully reply to your specific questions as follows:

1. "Name of institution and purpose?"

NATIONAL HOMŒOPATHIC HOSPITAL ASSOCIATION.

The business and object of the society shall be to establish and maintain a homœopathic hospital in the city of Washington, in which the medical staff shall be composed of homœopathic physicians only, but into which any physician may take his private patients on complying with the regulations which shall be established by the board of trustees; in which proper care and treatment may be given to lying-in women who may wish to be under homœopathic treatment; to which persons temporarily residing in the city may resort in case of sickness; to which accident cases, or persons suddenly taken sick in the street may be carried for temporary treatment; in which nurses may be instructed, and clinical instruction given to students of medicine; in connection with which there may be a dispensary for the treatment of the poor homœopathically. And to do such other things as may be legitimate and necessary to the efficient execution of the above named purposes.

2. "Locality?" Corner of Second and N streets, northwest.

3. "Cost and general description of buildings and appurtenant grounds, and value thereof?"

The main building is of brick, four stories high, with two annex buildings for steam-laundry, kitchen, and boiler-room. The main building has a frontage of 80 feet, and 46 feet deep. There is 31,000 feet of ground attached to it; all paid for, and valued at \$75,000.

4. "Capacity of same?" At present 40 patients.

5. "Number of inmates during the year?"

In nine months, beginning February, 1886, 41 pay and 15 free patients.

6. "Daily average number of inmates?" Nine.

7. "Amount of compensation of employés?"

Salary of house physician, matron, nurses, janitor, and servants, \$175 per month.

8. "Itemized statement of receipts and expenses for each year?"

| | |
|---|------------|
| Receipts for maintenance for nine months..... | \$6,364 39 |
| Expenditures for same period..... | 4,706 79 |

Most of the furniture of the hospital has been donated.

9. "Any recommendations deemed advisable?"

We respectfully recommend to the Commissioners that they unite with us in asking Congress to make a moderate appropriation to enable so efficient and economically conducted an institution to become still more useful to suffering humanity.

I have the honor to be, yours, &c.,

E. S. HUTCHINSON,
President Board Trustees.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R 3.

THE CHILDREN'S HOSPITAL OF THE
DISTRICT OF COLUMBIA,

Washington, November 2, 1886.

GENTLEMEN: In response to your letter of the twenty-third ultimo the executive committee of the Children's Hospital state as follows (the answers are numbered as are your questions):

1. The corporate name of the institution is, "The Children's Hospital of the District of Columbia." Its purpose is (charter), "The gratuitous medical and surgical treatment of indigent children under the age of twelve years, without distinction of race, sex, or creed." It was incorporated December 2, 1870, under the provisions of the general incorporation act of the District of Columbia. June 24, 1884, an amended certificate was filed under the provisions of an act of Congress approved April 23, 1884.

2. Its locality is square 272, bounded by V and W, Twelfth and Thirteenth streets northwest, in the city of Washington, district aforesaid.

3. The cost of the ground was \$15,722.88.

The cost of the buildings was \$23,662.22.

The ground is valued by Mr. Thomas J. Fisher at \$40,000.

The buildings are valued by him at \$40,000.

The hospital occupies, for hospital purposes, the whole of the square.

4. The capacity of the white ward is thirty beds; that of the colored ward is the same. There are, in addition, isolated and special wards (for contagious, infectious, and offensive cases), which in an emergency would accommodate fifteen more beds.

5. During the past year (1885) 225 children (184 new admissions, of whom 92 white and 92 colored) were treated as inmates in the hospital; the daily average was 45.8; the cases treated in the dispensary of the hospital were, during the same year, 1,821 (492 white and 1,329 colored). There were 37 outdoor patients attended during the year.

6. As stated above, the daily average during the year 1885 was 45.8 patients, inmates of the hospital. This does not include dispensary and outdoor patients.

7. The compensation of all employes is \$297.50 per month. This is itemized in the appended statement.

8. In answer to this question, an itemized statement, as requested, is appended.

9. The committee, not understanding the scope of the recommendations referred to in the last inquiry, can only say, generally, that they recommend this charity to the favorable consideration of the Commissioners, and that an inspection of the hospital and of its management by them (the Commissioners) is earnestly invited.

By the EXECUTIVE COMMITTEE.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 395

Treasurer's account of the Children's Hospital of the District of Columbia for the year ending June 30, 1886.

RECEIPTS.

| | |
|---|------------|
| Received during the year from the District of Columbia..... | \$5,000 00 |
| Received from the "Hall fund" | 4,934 18 |
| Received from individual contributors..... | 1,561 52 |
| Received from tax-lien certificate..... | 181 83 |
| Received from board of lady visitors..... | 1,000 00 |
| | <hr/> |
| | 12,677 53 |
| | <hr/> |

DISBURSEMENTS.

| | |
|---|------------|
| Expended during the year for pay-roll..... | \$3,448 00 |
| Groceries, marketing, and ice..... | 2,434 13 |
| Bread | 381 44 |
| Milk | 724 50 |
| Furniture | 456 41 |
| Improvements and repairs | 1,783 09 |
| Medicines, instruments, and appliances..... | 492 34 |
| Stationery, printing, and postage..... | 352 23 |
| Gas | 184 95 |
| Fuel | 607 52 |
| Fire alarm | 126 12 |
| Payment of indebtedness..... | 1,706 24 |
| Telephone, \$66.63; insurance, \$20..... | 86 63 |
| Sundries, not classified | 103 37 |
| | <hr/> |
| | 12,886 97 |

WASHINGTON, D. C., November 6, 1886.

I hereby certify that the above is a true statement of my account under this head of appropriation.

W. S. THOMPSON,
Treasurer.

R 4.

WASHINGTON, D. C., November 1, 1886.

GENTLEMEN: On behalf of the board of directors of the Columbia Hospital for Women and Lying-in Asylum, I have the honor herewith to present to you the annual statements of the surgeon in charge, of the treasurer, and of the other officers of the institution. These, we believe, will amply show the satisfactory condition of the institution, and the valuable service it is rendering under faithful, economical, and successful management.

Incorporated by Congress in the year 1866, the institution, situated on the northeast corner of Twenty-fifth and L streets N. W., is the property of the United States. It has a capacity of sixty beds. The daily average of patients for the past year was $33\frac{44}{100}$, and the total number was 397, this being the largest number of any year since its foundation.

The treasurer's report shows that, in addition to \$15,000 annually appropriated by Congress, an income of \$4,227 has been received from pay patients. This sum happily supplies a resource for what would otherwise prove a deficiency in the year's expense. But owing to the number of beds reserved for pay patients, the total number of patients admitted can never be as great as when all the beds shall be made free, since patients able to pay for treatment usually prefer attendance

at their homes, and only when unable to incur such expense will seek treatment at the hospital.

In addition to the \$15,000 needed for current expenses, we renew the request made last year for a special appropriation of \$10,000 for an elevator, and for the extension of the laundry. These are both greatly needed, and have already been recommended by vote of the directors and approved by the honorable Commissioners of the District.

Thanking you for your confidence in the past, we trust the institution and its management may command your continued approval and friendly support.

Very respectfully,

RUSH R. SHIPPEN,

President of the Board of Directors.

To the COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

To the Board of Directors of Columbia Hospital for Women:

GENTLEMEN: The expiration of another fiscal year demands that I should submit for your consideration the usual annual report of the medical and surgical treatment of patients of this institution from July 1, 1885, to June 30, 1886, together with such suggestions as I deem proper to place before you. There have been treated during the period above specified nine hundred and fifty-one (951) patients, of whom three hundred and ninety-seven (397) were inmates of the hospital, and five hundred and fifty-four (554) received medical attendance and medicine gratuitously at the outdoor department. The following tabulated statement furnishes the necessary information of the year's work and what has been accomplished.

The mortality in the hospital was seven adults—two in the obstetrical section, one admitted shortly before death, and another dying of convulsions from acute inflammation of the kidneys. In the medical and surgical division five deaths are recorded: one from exhaustion caused by excessive hemorrhage from the presence of a large fibroid tumor; one from valvular disease of the heart, accompanied with acute jaundice, and admitted a few days prior to death for suppression of the menses. The three other deaths followed surgical operations for the removal of tumors of the uterus or its appendages.

The cause of the infantile mortality is given in the report of the obstetrical division.

I would again respectfully call attention to the extension of the cottage for lying-in purposes. During the *past summer* there were twenty patients at one time either delivered or awaiting delivery in the cottage, with accommodation only for twelve. We had to put those patients awaiting delivery into the main building, which prevented the necessary cleaning and disinfection of the wards to be used during the winter months. It would be, as I before stated, of incalculable benefit to the patients if the two departments of the hospital could be isolated. We were fortunate enough with thorough antiseptic treatment, in so far as it could be carried out, to prevent septicæmia during the past year, nor a single death occurring from that source out of one hundred and thirty-eight (138) deliveries. Yet this scourge of lying-in asylums may manifest itself at any moment, and the lives of women be sacrificed because of the lack of facilities to stay this terrible disease. Only those who have witnessed an outbreak of puerperal septicæmia can conceive the havoc it induces and the amount of labor required during its continu-

ance. The necessity for an elevator and proper laundry facilities has been pointed out, but owing to want of time during the last session of Congress the necessary appropriation was not granted.

There were sixty-eight operations performed during the year, some of them the most difficult and dangerous in surgery, with a mortality of four, and in these four cases the operation was undertaken as a *dernier resort*, they having been subjected to all manner of treatment before entering the hospital. The number of patients admitted during the year and treated in the hospital has been thirty-six (36) in excess of the preceding year, and I have deemed it prudent to place before you the authenticated statement of one of the resident assistants and the pharmacist that the daily average has been accurately kept in accordance with a resolution passed by your body last year.

The hospital is indebted to Col. John M. Wilson, Superintendent of Public Buildings and Grounds, and also to the ladies of the Flower Mission, for many donations of flowers, always acceptable to the sick.

There are minor items of importance to which I have directed attention, but which do not require special notice in this report. The hospital in all its departments is in excellent sanitary condition: the nurses and employes have been faithful in the discharge of their duties, and I hope the general management has been satisfactory to you.

Very respectfully,

P. J. MURPHY, M. D.,
Surgeon in Charge.

| | |
|---|-----|
| Patients in hospital July 1, 1885..... | 31 |
| Patients admitted during the year..... | 366 |
| Total treated during the year ending June 30, 1886..... | 397 |

COLOR.

| | |
|--|-------|
| White | 249 |
| Colored..... | 148 |
| | 397 |
| Discharged during the year | 357 |
| Died during the year..... | 7 |
| | 364 |
| Remaining under treatment July 1, 1886..... | 33 |
| Prescriptions compounded during the year | 3,207 |
| Death rate during the year, 1.76 per cent. | |

NATIVITIES.

| | | | |
|----------------------------|----|------------------------|-----|
| Alabama | 3 | Mississippi | 1 |
| Canada | 1 | Missouri | 1 |
| Connecticut | 1 | New Jersey | 5 |
| District of Columbia | 60 | New York | 5 |
| England | 6 | North Carolina | 4 |
| Florida | 1 | Ohio | 4 |
| Georgia | 1 | Pennsylvania | 16 |
| Germany | 14 | Prussia | 1 |
| Illinois | 3 | Sandwich Islands | 1 |
| Iowa | 2 | South Carolina | 3 |
| Ireland | 38 | Switzerland | 3 |
| Kansas | 1 | Tennessee | 4 |
| Kentucky | 1 | Vermont | 2 |
| Maryland | 95 | Virginia | 116 |
| Massachusetts | 3 | | |
| Michigan | 1 | Total | 397 |

398 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

STATES OR COUNTRIES.

| | | | |
|----------------------|-----|----------------|-----|
| Alabama | 3 | New Jersey | 5 |
| Connecticut | 1 | New York | 4 |
| Dakota | 2 | North Carolina | 3 |
| District of Columbia | 291 | Ohio | 3 |
| Illinois | 1 | Pennsylvania | 7 |
| Iowa | 1 | Prussia | 1 |
| Kansas | 2 | South Carolina | 3 |
| Maryland | 22 | Tennessee | 4 |
| Massachusetts | 1 | Unknown | 2 |
| Michigan | 1 | Virginia | 38 |
| Missouri | 1 | | |
| Nevada | 1 | Total | 397 |

Medical and surgical cases during the years 1885-'86.

| Diseases. | Cured. | Relieved. | Unrelieved or incurable. | Unknown. | Died. | In house. | Total. |
|-----------------------------------|--------|-----------|--------------------------|----------|-------|-----------|--------|
| Adenitis, vulvo-vaginal. | | 1 | | | | | 1 |
| Adenoma mammae | 1 | | | | | | 1 |
| Amenorrhoea | 2 | 1 | 1 | 1 | al | | 6 |
| Anteflexion of uterus. | 8 | | | | | 4 | 23 |
| Anteversio of uterus. | | 3 | | 1 | | | 4 |
| Atresia vagina | 1 | | | | | | 1 |
| Carcinoma of uterus. | 1 | | 1 | | | | 2 |
| Cellulitis, pelvic. | 1 | 4 | | | | 1 | 6 |
| Cellulitis, pelvic, chronic. | | 2 | | | | | 2 |
| Chloranæmia | | | | 1 | | 1 | 2 |
| Chlorosis | | | | 1 | | | 1 |
| Condylomata | | 1 | | | | | 1 |
| Cystoma of ovary | 1 | | | | 1 | | 2 |
| Cystitis, acute. | 1 | | | | | | 1 |
| Dysmenorrhœa | 1 | | | | | | 1 |
| Endocervicitis | 3 | 1 | | | | | 4 |
| Endometritis | 2 | 5 | | 1 | | 1 | 9 |
| Endometritis, chronic | 2 | 18 | | 2 | | 2 | 24 |
| Fibro-cystoma of uterus | | 1 | 2 | 1 | 3 | | 7 |
| Fibroma of uterus. | 2 | 13 | 3 | 1 | | | 18 |
| Fistula, recto-vaginal. | | 1 | | | | | 1 |
| Fistula, vesico-vaginal. | 2 | 1 | | | | 1 | 4 |
| Hysteria | | 3 | | | | | 3 |
| Hystero-epilepsy | | 1 | | | | | 1 |
| Incontinence of urine. | | | 1 | | | | 1 |
| Laceration of cervix | 2 | | | | | | 2 |
| Laceration of cervix and perineum | 1 | 1 | | | | | 2 |
| Laceration of perineum. | 2 | | | | | | 2 |
| Leucorrhœa | 1 | 1 | | | | 1 | 3 |
| Mammitis | 2 | 2 | | | | | 4 |
| Menopause | 1 | 8 | | | | | 9 |
| Metritis, acute | | | | | | 1 | 1 |
| Metritis, chronic | | 1 | | | | 2 | 3 |
| Metropéritonitis | 1 | 1 | | 3 | | | 5 |
| Polypus uteri | 2 | | | | | 1 | 3 |
| Prolapsus uteri. | 1 | 7 | | 1 | | | 9 |
| Retained placenta | 1 | | | | | | 1 |
| Retroflexion of uterus | 1 | | | | | | 1 |
| Retroversio of uterus | 1 | 9 | | 1 | | 3 | 16 |
| Scurfins of breast | 3 | 1 | | | | | 4 |
| Subinvolution | 7 | 2 | | 2 | | 1 | 12 |
| Threatened abortion | 1 | | | | | | 1 |
| Vaginitis | 1 | 2 | | | | | 3 |
| Variçose ulcer of leg | 1 | | | | | 1 | 2 |
| Vesical irritability | 1 | | | | | | 1 |
| Vomiting of pregnancy (obstinate) | 1 | | | | | | 1 |
| Not subject for treatment (b) | 1 | | | | | | 1 |
| Total. | 56 | 101 | 8 | 18 | 5 | 20 | 215 |

a Died of valvular disease of the heart.

b Of these, 3 came as companions for patients under treatment; 2 were sent to other institutions; and 2 with rheumatism were discharged.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 399

Operations during year ending June 30, 1886.

| Diseases. | Cured. | Relieved. | Unrelieved or incurable. | Unknown. | Died. | In house. | Total. |
|--|--------|-----------|--------------------------|----------|-------|-----------|--------|
| Adenoma of mammary gland | 1 | | | | | | 1 |
| Atresia of vagina | 1 | | | | | | 1 |
| Cervix, partial amputation of | 1 | | | | | | 1 |
| Cyst of left ovary | 1 | | | | 1 | | 2 |
| Cyst, parovarian | | | | | 1 | | 1 |
| Fibro-cystic tumor of uterus | | | | | 1 | | 1 |
| Fibroma of uterus | 2 | | | | 1 | | 3 |
| Fistula in ano | 2 | | | | 1 | | 3 |
| Fistula, recto-vaginal | | 1 | | | | | 1 |
| Fistula, vesico-vaginal | 2 | 1 | | | | | 3 |
| Hæmorrhoids | 1 | | | | | 1 | 2 |
| Laceration of cervix uteri | 5 | | | | | | 5 |
| Laceration of perineum (primary) | 31 | | 1 | | | | 32 |
| Laceration of perineum (secondary) | 2 | | 1 | | | | 3 |
| Mammary abscess | 3 | | | | | | 3 |
| Polypus uteri | 4 | | | | | | 4 |
| Stenosis of cervical canal | | 2 | | 1 | | | 3 |
| Total | 56 | 4 | 2 | 1 | 4 | 1 | 68 |

OBSTETRICAL REPORT.

| | |
|---|-----|
| In hospital July 1, 1885, delivered | 4 |
| In hospital July 1, 1885, undelivered | 5 |
| Total in hospital July 1, 1885 | 9 |
| Admitted during the year | 173 |
| Total to be accounted for | 182 |
| Discharged after delivery | 135 |
| Left, undelivered | 32 |
| Died | 2 |
| In hospital July 1, 1886, delivered | 10 |
| In hospital July 1, 1886, undelivered | 3 |
| Maternal mortality | 2 |
| Causes of: Acute nephritis | 1 |
| Edema of lungs | 1 |
| Infantile mortality | 3 |
| Causes of: Hemorrhage from umbilical cord | 1 |
| Patulous foramen ovale of heart | 1 |
| Premature birth | 1 |
| Still-births | 6 |
| Causes of: Asphyxia | 2 |
| Prolonged labor, second stage | 3 |
| Unknown | 1 |
| Abortion | 1 |
| Premature births | 2 |
| Total number deliveries during year * | 138 |
| Admitted immediately after delivery | 3 |
| Twins | 1 |
| Sex of children : | |
| Male | 66 |
| Female | 75 |
| Total | 141 |
| Breech presentations | 8 |
| Adherent placenta | 4 |
| Post-partal hemorrhage | 6 |

* One woman admitted after labor did not bring child.

400 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

| | |
|---|----|
| Mammary abscess..... | 1 |
| Nephritis, acute..... | 1 |
| Edema of lungs*..... | 1 |
| Puerperal eclampsia, post-partial..... | 1 |
| Puerperal eclampsia, ante-partial..... | 1 |
| Primary operation for lacerated perineum..... | 32 |
| Forceps—inferior strait..... | 4 |
| Mania, acute..... | 1 |
| Ophthalmia neonatorum..... | 8 |
| Icterus neonatorum..... | 7 |
| Wet nurses supplied..... | 1 |

COLUMBIA HOSPITAL, Washington, D. C.

P. J. MURPHY, M. D.,
Surgeon in Charge:

SIR: We have the honor to submit the following report of Columbia Hospital Dispensary for the fiscal year ending June 30, 1886.

Of the cases reported as unknown, a large proportion, probably 80 per cent., were relieved or cured and did not report for discharge.

Very respectfully,

JNO. W. BOVEE, M. D.,
J. T. SWEETMAN, JR., M. D.,
Resident Assistants.

| | |
|--|--------------|
| Number patients under treatment at date of last annual report..... | 107 |
| Number of patients received..... | 447 |
| Total..... | 554 |
| Number discharged cured..... | 36 |
| Number discharged relieved..... | 77 |
| Number discharged unrelieved or incurable..... | 2 |
| Unknown..... | 301 |
| Sent to hospital from dispensary..... | 42 |
| Sent to other institutions..... | 9 |
| Number under treatment July 1, 1886..... | 87 |
| Number prescriptions compounded..... | 554 2,914 |

COLUMBIA HOSPITAL, Washington, D. C.

P. J. MURPHY, M. D.,
Surgeon in Charge:

SIR: We have the honor to report the following statement of daily average number of patients for the fiscal year ending June 30, 1886.

Sum total of daily number of patients for the year July 1, 1885, to June 30, 1886 (not including infants), = 12,208.

Daily average number of patients for the year, July 1, 1885, to June 30, 1886 (not including infants), = 33.446+.

Very respectfully,

J. T. SWEETMAN, JR., M. D.,
Resident Assistant.
JOSEPH A. HORIGAN, PHAR. D.,
Pharmacist.

* This patient was admitted in a stage of exhaustion from convulsions of carbonic acid poisoning, and died in a few hours.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 401

Report of Columbia Hospital for Women, and Dispensary, Washington, D. C., for the year ending June 30, 1886.

| | Hospital. | Dispensary. | Total. |
|--|-----------|-------------|--------|
| Number of patients under treatment at date of last report..... | 31 | 107 | 138 |
| Number of patients received..... | 306 | 447 | 813 |
| Total treated..... | 397 | 554 | 951 |
| Number cured..... | 191 | 36 | 227 |
| Number relieved..... | 101 | 77 | 178 |
| Unrelieved or incurable..... | 8 | 2 | 10 |
| Unknown..... | 50 | 301 | 351 |
| Died..... | 7 | | 7 |
| Sent to hospital from dispensary..... | | 42 | 42 |
| Not subjects for treatment *..... | 7 | | 7 |
| Sent to other institutions *..... | | 9 | 11 |
| Number under treatment at date of this report..... | 33 | 87 | 120 |
| Births..... | 139 | | 139 |
| Prescriptions compounded..... | 3,207 | 2,914 | 6,121 |

* The two cases sent from this hospital to other hospitals were unfit subjects for treatment here and appear also on that list for the hospital.

To the Board of Directors of Columbia Hospital for Women :

GENTLEMEN: I have the honor to submit for examination and report the yearly inventory of medical and surgical property, including drugs, chemicals, &c., under my charge.

Respectfully,

P. J. MURPHY,
Surgeon in Charge.

Annual report of Charles H. Cragin, treasurer.

To the Board of Directors of Columbia Hospital and Lying-in Asylum :

GENTLEMEN: The receipts of the hospital for the fiscal year ending with June 30, 1886, were as follows :

| | |
|----------------------------------|-------------|
| From United States Treasury..... | \$15,000 00 |
| From pay patients..... | 4,227 00 |

| | |
|---|-----------|
| Making a total of cash receipts..... | 19,227 00 |
| There was a balance of cash derived from pay patients on hand July 1, 1885, amounting to..... | 1,359 52 |

Which, added to the year's receipts, makes 20,586 52
as the total cash on hand and received by the treasurer during the fiscal year.

| | |
|--|-------------|
| Of this sum I have paid of the United States fund..... | \$15,000 00 |
| Of the pay patients' fund..... | 2,845 59 |

| | |
|--|-----------|
| Making a total of expenditure of..... | 17,845 59 |
| With a balance of cash on hand of..... | 2,740 93 |
| | 20,586 52 |

An itemized report has been made by me to your board at each quarterly meeting of my expenditures of these funds, with vouchers therefor, which renders a recapitulation here needless. My expenditures of United States funds, with the vouchers, have been duly audited and settled by the First Auditor and the First Comptroller of the United

H. Ex. 1, pt. 6—26

States Treasury, as appears by the following letter of the Acting First Comptroller, dated September 1, 1886.

Deducting from the total expenditures of the hospital during the year the sum of \$1,717.89 for repairs, and \$610 for permanent improvements, and \$51.25 for fire insurance of personal property, making a total of \$2,379.14, leaves the sum of \$15,466.45. By referring to the report of the surgeon in charge, it will be seen that the average daily number of patients under the roof of the hospital and undergoing treatment therein during the fiscal year was 33.45, without reckoning infants or the officers and employes of the hospital. Dividing \$15,466.45 by 365 gives the average daily expenditure of the hospital \$42.37, and dividing this by 33.45, the daily average of cost for each patient is found to be \$1.26 $\frac{2}{3}$. This includes the salaries of the resident surgeon, matron, apothecary, and the corps of nurses, cooks, laborers, and all other expenditures in the hospital, with the exception of items above noted, for repairs, permanent improvements, and fire insurance.

Comparing this result with the average daily cost of patients in other hospitals of similar character, with the same deductions and exceptions, the economy of the hospital administration will be apparent. For example, in the Boston Lying-in Hospital, a purely charitable institution, supported entirely by subscriptions, the average daily cost of each patient during 1885 was \$1.93; for 1884, \$2; for 1883, \$2.13; for 1882, \$1.65; for 1881, \$1.53; for 1880, \$1.80.

Respectfully submitted.

CHAS. H. CRAGIN, M. D.,
Treasurer.

SEPTEMBER 9, 1886.

GENERAL FUND.

For the maintenance and support of Columbia Hospital for Women and Lying-in Asylum for the fiscal year ending June 30, 1886, Congress appropriated the sum of \$15,000, in addition to the amount received from pay patients. This amount has been drawn from the United States Treasury by quarterly requisitions upon the Treasury, approved by the District Commissioners, and expended for the use of the hospital, as appears by the following statement and the vouchers therefor, audited and settled in the United States Treasury:

Charles H. Cragin, treasurer, in account with the United States.

| | | | |
|-------|-----|--|------------|
| 1885. | | | |
| July | 27. | To draft on United States Treasury | \$3,750 00 |
| Sept. | 30. | By vouchers to date | 3,736 95 |
| Oct. | 1. | Balance on hand | 13 05 |
| Oct. | 1. | To balance | 13 05 |
| Nov. | 3. | To draft on United States Treasury | 3,750 00 |
| | | Total | 3,763 05 |
| Dec. | 31. | By vouchers to date | 3,664 43 |
| | | Balance on hand | 98 62 |
| 1886. | | | |
| Jan. | 1. | To balance | 98 62 |
| Jan. | 20. | To draft on United States Treasury | 3,750 00 |
| | | Total | 3,848 62 |
| March | 31. | By vouchers to date | 3,845 44 |
| | | Balance | 3 18 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 403

| | | |
|-------|---|----------|
| April | 1. To balance..... | \$3 18 |
| April | 23. To draft on United States Treasury..... | 3,750 00 |
| | Total | 3,753 18 |
| June | 30. By vouchers to date | 3,753 18 |

By which it appears that the appropriation made by Congress was exactly exhausted by the expenditures, leaving no balance.

TREASURY DEPARTMENT,
FIRST COMPTROLLER'S OFFICE,
Washington, D. C., September 1, 1886.

CHARLES H. CRAGIN, Esq.,

Treasurer of Columbia Hospital for Women and Lying-in Asylum.

SIR: Your account for expenses of the Columbia Hospital for Women and Lying-in Asylum, District of Columbia, for quarter from April 1, 1886, to June 30, 1886, has been settled, by First Auditor's Report No. 252759, as certified by this office and found to be balanced, which agrees with your statement.

Very respectfully,

J. R. GARRISON,
Acting First Comptroller.

Charles H. Cragin, treasurer, in account with Columbia Hospital, moneys derived from pay patients in the fiscal year ending June 30, 1886.

| | | |
|-------|---|------------|
| July | 1. To balance on hand..... | \$1,359 52 |
| Aug. | 4. To cash from matron..... | \$276 00 |
| Sept. | 3. To cash from matron..... | 281 00 |
| Oct. | 2. To cash from matron..... | 359 00 |
| Nov. | 5. To cash from matron..... | 340 00 |
| Dec. | 3. To cash from matron..... | 308 00 |
| 1886. | | |
| Jan. | 5. To cash from matron..... | 440 00 |
| Feb. | 2. To cash from matron..... | 264 00 |
| March | 4. To cash from matron..... | 358 00 |
| April | 5. To cash from matron..... | 290 00 |
| May | 3. To cash from matron..... | 574 00 |
| June | 8. To cash from matron..... | 362 00 |
| July | 9. To cash from matron..... | 310 00 |
| | | 1,246 00 |
| April | Amount received from pay patients during fiscal year..... | 4,202 00 |
| | 6. To cash from matron from sale of a cow..... | 25 00 |
| | Total receipts during fiscal year..... | 4,227 00 |
| | Total cash on hand and received during fiscal year..... | 5,586 52 |
| 1885. | | |
| Sept. | 30. By vouchers paid to date | \$473 25 |
| Dec. | 31. By vouchers paid to date | 709 59 |
| 1886. | | |
| March | 31. By vouchers paid to date | 630 58 |
| June | 30. By vouchers paid to date | 1,032 17 |
| | Total paid during fiscal year..... | 2,845 59 |
| | Balance on hand | 2,740 93 |
| | | 5,586 52 |

We have carefully examined the above annual report of Charles H. Cragin, treasurer, of his receipts and disbursements of moneys derived from pay patients during the fiscal year ending June 30, 1886, and find it correct. We also find the balance of \$2,740.93 standing in the Farmers and Mechanics' National Bank to the credit of the hospital July 1, 1886.

H. A. WILLARD,
JAMES E. MORGAN, M. D.,
Committee of Audit.

Classification of expenditures of Columbia Hospital for Women and Lying-in Asylum for the fiscal year ending June 30, 1886.

| Items. | General fund. | Pay-patient fund. | Totals. |
|---------------------------------------|---------------|-------------------|------------|
| Pay-roll | \$2,976 50 | \$20 00 | \$2,996 50 |
| Marketing | 1,469 93 | 32 17 | 1,502 10 |
| House supplies | 587 39 | 292 85 | 880 24 |
| Repairs | 677 58 | 1,040 31 | 1,717 89 |
| Salaries | 2,600 00 | | 2,600 00 |
| Provisions | 4,426 67 | 349 44 | 4,776 11 |
| Medical and surgical supplies | 702 68 | 29 15 | 731 83 |
| Books, stationery, printing, &c. | 189 39 | 64 74 | 254 13 |
| Gas | 317 10 | | 317 10 |
| Fuel | 757 84 | 87 15 | 844 99 |
| Ice | 236 38 | 11 39 | 247 77 |
| Telephone | 50 63 | 23 14 | 73 79 |
| Permanent improvements | | 610 00 | 610 00 |
| Fire insurance | | 51 25 | 51 25 |
| Incidentals | 7 89 | 234 00 | 241 89 |
| Total expended | 15,000 00 | 2,845 59 | 17,845 59 |
| Balance on hand | | 2,740 93 | 2,740 93 |
| Totals | 15,000 00 | 5,586 52 | 20,586 52 |

R 5.

REPORT OF THE HOMŒOPATHIC FREE DISPENSARY.

Question. Name and purpose?—Answer. This association shall be known as the Homœopathic Free Dispensary Association of Washington City. Its particular business and object shall be to furnish homœopathic medical and surgical treatment to all applicants. Certificate of incorporation, December 30, 1882.

Q. Locality?—A. First floor, 709 G street northwest.

Q. Cost and description?—A. The association rents three rooms, for the sum of \$20.50 per month. The rooms are plainly furnished for dispensary use, valued about \$200.

Q. Capacity?

Q. Inmates during the year?—A. Prescriptions during the past year 7,298.

Q. Daily average number?—A. Twenty-five.

Q. Amount of compensation of employes?—A. The janitor is paid \$6 per month, and is the only employé. The attending physicians and pharmacist give their services free of charge.

Q. Itemized statement of receipts and expenses.

Anna P. Westcott, treasurer, in account with Homœopathic Free Dispensary Association.

| | |
|--|---------|
| Dr. To cash received from November 1, 1885, to October 31, 1886: | |
| From cash in hand November 1, 1885, belonging to dispensary..... | \$28 99 |
| From cash in hand November 1, 1885, belonging to Alberti fund..... | 80 17 |
| Active and associate members, including \$17 in fees for 1887..... | 55 00 |
| Annual subscriptions..... | 79 00 |
| Monthly subscriptions..... | 11 50 |
| Cash donations..... | 131 81 |
| Contribution-box..... | 8 19 |
| Commissioners of District of Columbia, 12 months..... | 240 00 |
| Fines..... | 6 40 |
| Alberti fund interest on \$1,000 bond..... | 60 00 |
| Proceeds of dispensary table at "Kaffee Klatch" for Homœopathic Hos- pital..... | 60 00 |
| Proceeds of "Tea," at dispensary in February..... | 71 44 |
| Rent of room, for quarter ending September 31, to "Legion of Honor"..... | 6 00 |
| | 838 50 |
| Cr. By cash paid out from November, 1885, to October 31, 1886: | |
| Rent..... | 202 00 |
| Medical supplies..... | 168 24 |
| Medical supplies for physicians to poor to July 1, 1886..... | 144 00 |
| Printing..... | 49 20 |
| Janitor and washing..... | 60 50 |
| Furniture..... | 30 10 |
| Repairs..... | 75 |
| Fuel..... | 16 38 |
| Stationery..... | 10 03 |
| Seal..... | 4 50 |
| Donations to Homœopathic Hospital of proceeds of dispensary table at "Kaffee Klatch"..... | 60 00 |
| Alberti fund supplies for sick poor..... | 65 07 |
| Sundry small incidentals..... | 2 20 |
| Cash on hand October 31, 1886..... | 25 53 |
| Total..... | 830 50 |

Q. Any recommendations deemed advisable.—A. The dispensary is a corporate body, entirely distinct and separate from all other institutions.

It was established in 1882 by a few charitable ladies, aided by the physicians, who have from that time given their services without compensation.

That the dispensary might reach many people too poor to pay a physician and too ill to leave their homes, the District of Columbia Commissioners, in July, 1883, appointed one "homœopathic physician at large to the poor," and gave the dispensary \$20 per month to furnish him with medicine.

The number of outside patients increased so steadily that it was impossible for one physician to answer the calls for his services, and in October, 1885, a second homœopathic physician was appointed by the Commissioners, but the sum given the dispensary by the District Government was not increased, and both physicians were supplied with medicines out of the \$20 per month.

The city was divided into two districts—north and south—for the convenience of patients and physicians, but with their utmost endeavors it was impossible to answer all the calls made upon them or to visit patients as often as was desirable.

On the first of September, 1886, without a word of warning, one of the homœopathic physicians to the poor was summarily dismissed, and the dispensary was notified that the amount allotted to it for "medicines for the poor" would be \$125, in place of the \$240 previously given.

Careful inquiry elicited no cause of complaint against either of the homœopathic physicians to the poor or against the dispensary. The

only reason given by the health officer was that Commissioner Edmunds, in order to appoint homœopathic physicians to the poor, reduced the number of old-school physicians from ten to nine, thereby crippling the efficiency of his office.

Dr. Janney (dismissed) reports that during the thirteen months of his service he made 2,523 visits, and gave 1,101 prescriptions at his office to patients, whose names are upon the books of the health office.

The other physician, Dr. Goodell, reports during thirteen months 2,436 visits and 569 office consultations.

The dispensary deems these reports, taken with the subjoined table of work done by the dispensary during the past four years, a reasonable and sufficient claim upon the District Government for more liberal treatment and aid than it has yet received. It seems only just to the large number of homœopaths resident in the city that the District Government shall appoint each year not less than three homœopathic physicians to the poor. In order to supply these physicians with medicine and to enable the dispensary to meet the steadily increasing demands for its help, the dispensary earnestly begs that not only the \$240 heretofore allowed for "medicine for the poor," but an additional sum of at least \$460, making \$600 in all, shall be given it each year.

The subjoined table of work done by the dispensary, as well as the showing of total receipts (including all money from the city government) and total disbursements (including medicines for the physicians to the poor), will show the care and economy with which the affairs of the dispensary have been conducted, and will enable the Commissioners to estimate the additional amount of work that can be done should they grant the very reasonable requests preferred.

Work done by the Homœopathic Free Dispensary during four years, and receipts and disbursements for the same.

| | | | |
|--|-------|--------------------------|----------|
| November 7, 1882, to October 10, 1883: | | | |
| Prescriptions..... | 2,016 | Total receipts..... | \$556 90 |
| Patients..... | 667 | Total disbursements..... | 337 02 |
| October 15, 1883, to November 1, 1884: | | | |
| Prescriptions..... | 3,500 | Total receipts..... | \$820 88 |
| Patients..... | 1,130 | Total disbursements..... | 638 05 |
| October 31, 1884, to November 1, 1885: | | | |
| Prescriptions..... | 5,127 | Total receipts..... | \$659 16 |
| Patients..... | 1,628 | Total disbursements..... | 550 00 |
| November 1, 1885, to November 1, 1886: | | | |
| Prescriptions..... | 7,293 | Total receipts..... | \$838 50 |
| Patients..... | 2,194 | Total disbursements..... | 812 97 |

HOMEOPATHIC PHYSICIANS TO THE POOR.

| | |
|--|-------|
| August 1, 1885, to September 1, 1886: | |
| Edgar Janney, M. D. (dismissed), visits..... | 2,523 |
| Office consultations..... | 1,101 |
| October 1, 1885, to November 1, 1886: | |
| Charles F. Goodell, M. D., visits..... | 2,436 |
| Office consultations..... | 569 |

All of which is respectfully submitted,

ISOBEL H. LENMAN,
President.
ISABELLA M. BITTINGER,
Secretary.
ANNA P. WESTCOTT,
Treasurer.

The above questions were not received at the dispensary until Wednesday, November 24.

NOVEMBER 27, 1886.

ISABELLA M. BITTINGER,
Secretary, 936 B Street Southwest.

R 6.

WASHINGTON, D. C., November 18, 1886.

SIRS: I beg leave to acknowledge your communication of October 21, last.

1. In response thereto, I say: The legal title of the orphanage of which I am treasurer is "The Church Orphanage Association of St. John's Parish of Washington, District of Columbia."

2. The orphanage house is numbered 525 Twentieth street.

3. The building and grounds are valued at about \$15,000.

4. Capacity, 70 persons comfortably.

5. Number of inmates during the year, 78.

6. One assistant is employed at \$10 per month; four assistants are employed at \$5 per month each; two servants are employed at \$10 per month each.

7. The purpose of the institution is to establish and maintain one or more houses for such indigent orphans, or half-orphan children, or other children left in a destitute and impoverished state and condition, as it may receive and have under its care, and to educate such children; and to establish and maintain one or more dispensaries or other institutions for the shelter, support, and relief of such sick or infirm children as it may receive under its care, or otherwise minister to; and to establish and maintain such other institutions for charitable or reformatory uses as may be determined upon by the board of trustees."

8. The certificate of incorporation is dated April 29, 1882, and the society was organized under section 545 of the Revised Statutes, relating to the District of Columbia.

Appended you will find statement of receipts and expenditures for the year ending June 30, 1886.

| | |
|---|----------|
| Balance per last statement June 30, 1885..... | \$404 19 |
| Voluntary contributions | 2,028 43 |
| By District of Columbia | 1,500 00 |
| | 3,932 62 |
| Less disbursements | 3,481 34 |
| Balance on hand June 30, 1886 | 451 28 |

9. Sixty-four children now on the rolls. Sixty-five the average for the year. The sister in charge, who is devoting her life to this work, gives her services without any compensation whatever. We are educating for the duties of life these children at an expense which is almost nominal.

We are in great need of additional land and buildings to carry on our work, and I, by this means, in the name of this great charity, make application for the sum of \$5,000 for that purpose.

Very respectfully,

THOS. HYDE,
Treasurer.

THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA,
Washington, D. C.

R 7.

WASHINGTON, D. C., November 11, 1886.

GENTLEMEN: The Board of Directors of the Washington Hospital for Foundlings, in reply to your communication of October 22, 1886, respectfully submit the following answers to the several interrogatories contained in said communication:

1. Name of institution and purposes: The name of the institution is Washington Hospital for Foundlings, as set forth in section 1 of the act of incorporation, approved April 22, 1870. Section 5 of the said act declares, "That the object of this institution is the founding in the city of Washington a hospital for the reception and support of destitute and friendless children."

2. Locality: The hospital building and grounds are situated on the east side of Fifteenth street west, about midway of the square between R and S streets north, in square No. 207.

3. Cost and general description of the building and appurtenant grounds and the value thereof: The hospital building is not yet fully completed. The total cost will be about \$25,000. The building consists of two stories and a basement. The main building has a frontage of 65 feet on Fifteenth street, with two wings extending toward the rear of the lot. There are two large wards in each story for the accommodation of the inmates, and three small wards, in the remote part of one of the wings, to be used as isolated wards for infectious diseases. The building has been erected according to plans submitted by Dr. J. S. Billings, surgeon in the United States Army, with whom the Board of Directors conferred as a specialist in the construction of hospitals, whose design was adopted after careful comparison with several which were submitted for approval.

In addition to the wards above named, ample accommodation is furnished for the necessary attendants. Special attention has been directed to the subject of ventilation. The plumbing arrangements have been placed in a detached wing, the whole of this part of the construction having been designed to secure absolute perfection.

The grounds belonging to the institution comprise about 38,200 square feet, consisting of fourteen building lots, including a twenty-foot wide alley laid out through the middle of said lots.

On the books of the assessor the property is rated as "exempt." The valuation is as below:

| | |
|---|----------|
| Washington Hospital for Foundlings, lots 24 to 37, inclusive, square 207 | \$19,749 |
| Improvements | 20,000 |
| | 39,749 |

4. Capacity of same: The present building will accommodate 50 inmates, with the necessary attendants. It can be extended to accommodate 300.

5. Number of inmates during the year, none; the building being incomplete, and there being no funds for maintenance.

6. Daily average number of inmates, none.

7. Amount of compensation of employes, none.

8. Itemized statements of receipts and expenses for the year: Section 4 of the act of incorporation approved April 22, 1870, requires a report to be made to the Secretary of the Interior on the 1st day of July in each year. These reports have been duly made, and are on file in the Department of the Interior.

In the act making appropriation for the support of the District for the fiscal year ending June 30, 1887, approved July, 1886, the sum of \$3,500 is appropriated out of the revenues of the District of Columbia for the completion of the hospital building. This appropriation for the current year, under the terms of the act approved July 5, 1884, takes the jurisdiction, from July 1, 1886, away from the Department of the Interior and transfers it to the Commissioners of the District of Columbia. The appropriation of \$3,500 has not yet been expended. At the close of the current fiscal year the board of directors of the Washington Hospital for Foundlings will submit their report to the Commissioners of the District of Columbia, as required by the act approved July 5, 1884.

9. Any recommendations deemed advisable: The Washington Hospital for Foundlings is the only institution in the District of Columbia which has for its sole object the care and maintenance of the unfortunate class who, at their very entrance into life, are abandoned to the charity of the public authorities.

Out of the necessity of providing for this helpless class of unfortunates has come the founding of this institution. The act of incorporation dates from April 22, 1870. In 1871 the Territorial legislature dedicated the sum of \$10,000 to initiate the institution. With this small sum, increased by careful investments, supplemented by some amounts derived from the efforts of philanthropic ladies, together with the \$3,500 appropriated by Congress, as above-mentioned, a building has been erected which is now nearly ready to be put to use for the purposes indicated in the charter.

In response to inquiry No. 9, as above, the board of directors will respectfully recommend that there be inserted in the estimates for the fiscal year ending June 30, 1888, an item of \$5,000, to provide furniture and equipments, and an item of \$10,000 for the maintenance, for one year, of the Washington Hospital for Foundlings. Estimates for these two items of \$5,000 and \$10,000 respectively are inclosed.

Copies of the Act of Incorporation and By-Laws of the Washington Hospital for Foundlings are inclosed herewith.

Estimates for furnitu and equipments for Washington Hospital for Foundlings for fiscal year ending June 30, 1888.

The capacity of the building allowing for the accommodation of 50 children, an average of \$100 will be required to provide the necessary furniture and equipments of all kinds.

Furniture and equipments of all kinds for 50 children and attendants at \$100 per child..... \$5,000

Estimated expenses for support of Washington Hospital for Foundlings for fiscal year ending June 30, 1888.

| | | |
|--|-------|--------|
| 1 matron | \$900 | |
| 5 nurses, at \$300 per annum..... | 1,500 | |
| 1 janitor | 300 | |
| 1 cook | 180 | |
| 1 laundress..... | 180 | |
| 1 seamstress..... | 180 | |
| 2 housemaids..... | 240 | |
| Fuel..... | 700 | |
| Gas..... | 200 | |
| Subsistence for 50 infants, at 20 cents per diem..... | 3,650 | |
| Subsistence for 12 attendants, at 40 cents per diem..... | 1,752 | |
| Incidentals | 218 | |
| | | 10,000 |
| Total..... | | 15,000 |

The above estimate is made on the basis of the full capacity of the building, there being little doubt that it will be fully occupied soon after it shall have been put in operation.

In similar institutions the number cared for in the building represents about one-third of those under their care—the two-thirds being infants at the breast, in charge of wet-nurses employed outside. In the above estimates we have not included anything for the care of these two-thirds, relying upon voluntary contributions to meet this expense.

Very respectfully,

A. C. RICHARDS,

Secretary Board Directors Washington Hospital for Foundlings.

THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R 8.

ST. ANN'S INFANT ASYLUM, WASHINGTON, D. C.

The Commissioners of the District of Columbia:

GENTLEMEN: I respectfully submit the report of this institution, as requested by letter from your office, dated the 18th ultimo. The commencement of it may be of interest. August, 1860, Rev. Dr. White (deceased), then pastor of St. Matthew's Church, rented a small frame house at Tenth and C streets northwest, where the Sisters of Charity opened the asylum with five or six deserted babes. The number of infants so much increased that in two years it became necessary to procure more ample room. The present site, located at K, Twenty-third, and Twenty-fourth streets and New Hampshire avenue, was purchased from Mr. Riggs (deceased), for the sum of \$25,000, to be paid by installments, or as the Sisters were able to pay.

Some twelve years ago it became necessary to enlarge the asylum, and its present capacity is about 150 to 175; its daily average inmates, 125. February 11, 1863, it was incorporated (by public authority, I suppose) for the purpose of caring for foundlings, orphans, or others whom circumstances oblige relatives to place here. In these cases we require something to be paid towards their support; that is, when it can be done.

The charter also calls for the care of unfortunate and destitute women. These are provided for and taken in any length of time before confinement that they require a home, without exposure to the public, but we require them to work as far as they are able. Children are received at any time, night or day. This year we received 130 from different sources: relatives, police, and door-step. Many of them miserable. Long experience proves there is no way to preserve the lives of these little ones but by having them wet-nursed. The report will show that this year there was paid to wet-nurses \$2,201 out of the appropriation. This seems a large amount, but there is nothing else to do in order to preserve their lives. And out of the small resources of the asylum there is expended for employes an average of from seven to eight hundred dollars annually. The asylum has no permanent means of support, only the appropriation, except charity and subscriptions; the latter is becoming very small, owing to the death of a large number of the benefactors. Last year we made an appeal to Congress for an increase of at least \$2,000, but we did not get it, but will make another

effort this year. If it were in our power to receive all the children that application is made for it would require, with the greatest economy, \$10,000 appropriation. It is very painful to us to be obliged to refuse, and to others unChristian like, after hearing the most pitiable tales, &c., but what is to be done? We have not means to meet the enormous expense required for the number of children.

I remain, very respectfully,

Sister ELIZABETH RELIHAN,
President of Saint Ann's Infant Asylum.

P. S.—I forgot to mention, we have no disease whatever for years past; the condition of the children is good, teething babies excepted, as can be seen by inspectors. We are greatly indebted to the board of physicians for their untiring zeal and attention to the children.

Sister E. RELIHAN.

| | | |
|---|----------|------------|
| Appropriation to St. Ann's Infant Asylum, fiscal year ending June 30, 1886. | | \$5,000 00 |
| Wet-nursing infants out of asylum..... | 2,201 00 | |
| Meat bill..... | 697 62 | |
| Grocery bill..... | 640 23 | |
| Bread bill..... | 358 21 | |
| Vegetable bill..... | 156 81 | |
| Flour and feed bills..... | 242 01 | |
| Butter bill..... | 43 72 | |
| Dry goods bill..... | 102 10 | |
| Coal and wood..... | 558 30 | |
| | | 5,000 00 |

R 9.

WASHINGTON, D. C., November 9, 1886.

W. S. MATTHEWS, Esq.:

DEAR SIR: It has been devolved on me by the Board of Managers of the House of the Good Shepherd, No. 1107 Ninth street, Washington, D. C., to respond to the circular letter of inquiry addressed by the Commissioners to the managers of charitable institutions in the District, so far as the same applies to our institution, and I will respond to the questions propounded in the circular in the order in which they are propounded.

1. Name of institution, and purpose. The name of this institution is the House of the Good Shepherd of the City of Washington. It was incorporated April 23, 1884, under the general incorporation act of the District of Columbia. The purpose of it is to provide a reformatory for wayward girls, and to afford a place of refuge for young women desiring or sought to be reclaimed from a life of sin; also, to provide situations for such of them as evince a purpose to reform their lives.

2. The location is, as above stated, Nos. 1107 and 1109 Ninth street northwest, Washington, D. C.

3. The buildings consist of a double three-story brick house, located on lots A and B, in a subdivision of square No. 402. These lots front 105 feet on Ninth street, and have a depth of 100 feet. The institution also owns rear part of lot H in same square, which is used as a stable. The whole property was a gift to the institution from Miss Annie E. Smith, daughter of the late Rear-Admiral Joseph Smith, U. S. N., in May, A. D. 1883. The House has been enlarged since the donation by

an addition at a cost of about \$7,000. An adjacent building, No. 1111 Ninth street, has now been purchased, or the purchase agreed upon, for the sum of \$6,500.

4. The capacity of the House, for between 35 and 40 inmates, exclusive of the Sisters in charge, who are 8 in number.

5. The number of inmates during the year has averaged 33, and there are now 33 in the institution. The majority of these were brought by the police, but some came of their own accord, or were brought by parents.

6. The daily average number of inmates during the year has never been less than 30.

7. There are no employes except the 8 Sisters in charge, and they receive no compensation whatever. The house is supported almost entirely by the sewing procured for the inmates and themselves by the Sisters.

8. It is almost impossible to give an itemized account of receipts and expenditures for each year or for any year. The receipts come entirely from the sewing procured as above stated, and last year amounted to about \$1,400. The expenditures were merely the ordinary expenses of food and clothing and household expenses, and last year they amounted to about the same as the receipts, that is, \$1,400. In other words, the receipts and expenditures about balanced each other. In previous years the receipts and expenditures were a trifle less; they have generally about balanced each other.

9. We have no recommendations to make other than that probably formal authority should by law be given to the police court to commit girls to this institution in proper cases. The board of trustees are very desirous to enlarge the institution, having every reason to believe that enlarged accommodations could readily be availed of by a largely increased number of inmates. But as they must rely upon charity and the bounty of Congress, they are compelled to proceed slowly.

Very respectfully,

M. F. MORRIS,
For the Board of Directors.

[House of the Good Shepherd, 1017 Ninth street northwest.]

Sister Superior, Sister M. Martin; Assistant Superior, Sister M. Rose. Six associate Sisters.

Directors.—Dr. Foley, E. F. Riggs, Martin F. Morris.

Incorporators.—Dr. Foley, Admiral Franklin, U. S. N., E. F. Riggs, esq., Martin F. Morris, esq., Dr. F. B. Loring, Captain Mullan, Mrs. Barbour, Mrs. Merrick, Mrs. Linden Kent, Miss Anna Smith, Miss Alice Riggs, Miss H. Loring.

Inmates of the House, 32; brought by their parents or came of their own accord, 15; brought by the police, 17.

The House was the gift of Miss Smith. The institution has no revenues and no subscribers. The Sisters gratefully acknowledge some small donations in money and stores, but the support of the House comes from the labor of the Sisters and their inmates, by which they have made from \$75 to \$100 a month. The rapidly increasing demands on the House will prevent it from being self-supporting in the future. Parents apply for admittance for their daughters; The police constantly bring girls to the House, and the agent for the "Humane Society" has taken there all the girls, whose ages, and the associations from which he has rescued them, render them unfit for orphan asylums. The House has also received girls from the criminal and police courts.

The object of the institution is to afford a refuge for women desiring to lead a better life, and a reformatory for wayward girls. To lead them by kindness and occupation to forget their unhappy past, and by careful training fit them to be self-supporting on their return to the world. Since the opening of the House, two years ago, girls

have been placed in situations where they are doing well; others have been restored to their parents, who have consented to receive them, after years of separation, on account of their having voluntarily sought shelter in the House and given satisfaction there.

R. 10.

To the Commissioners of the District of Columbia:

SIR: I respectfully submit the following report of receipts and disbursements of the National Association for the Relief of Destitute Colored Women and Children for the fiscal year ending June 30, 1886.

Yours, respectfully,

LUCY S. DOOLITTLE,
Treasurer.

RECEIPTS.

| | |
|---------------------------------------|------------|
| Appropriation by Congress | \$6,500 00 |
| Payments on note | 1,329 09 |
| Donations | 363 19 |
| Payments for board | 185 00 |
| Membership fees | 42 00 |
| Sale of old building | 60 00 |
| Sale of old furniture, rags, &c. | 25 98 |
| | <hr/> |
| | 8,505 26 |

DISBURSEMENTS.

| | | | |
|---|------------|-----------------------------|----------|
| Salaries and wages | \$2,277 42 | Insurance | \$56 55 |
| Land | 1,765 25 | Plumbing | 34 70 |
| Deeds, search of title, and recording | 35 00 | Whitewashing | 5 00 |
| Groceries and provisions | 839 30 | Plastering | 4 00 |
| Meat | 787 42 | Repairing windows | 8 30 |
| Bread | 689 85 | Oils for floors | 10 48 |
| Milk | 427 61 | Oiling floors | 6 00 |
| Coal | 449 70 | Printing reports | 20 00 |
| Clothing | 349 29 | Advertising | 8 72 |
| Shoes | 117 85 | Stationery | 1 75 |
| Shoe mending | 134 38 | Christmas | 6 65 |
| Furniture and carpets | 136 53 | Architect | 5 25 |
| Matron's current expenses | 240 00 | Freight | 3 92 |
| Medicines | 69 95 | Sewing-machine repair | 3 43 |
| Hats and caps | 10 80 | Yarn | 7 83 |
| Gas | 35 10 | Manure | 14 00 |
| Hardware | 63 92 | | <hr/> |
| | | | 8,675 95 |

Disbursements exceed receipts \$170.69.

R 11.

WASHINGTON, November 8, 1886.

Commissioners of the District of Columbia:

GENTLEMEN: In reply to your communication of October 22 I have the honor to submit the following:

1. Name and purpose: Home for Destitute Colored Women and Children. "To support such aged or indigent colored women and children as may properly come under the charge of such association; to

provide for them a suitable home, board, clothing, and instruction, and to bring them under Christian influence."

Date of charter: Act of Congress, approved February 14, 1863.

2. Locality: Eighth street extended, District of Columbia.

3. Cost of buildings and grounds: Value of grounds, \$10,000.

The buildings, valued at \$38,000, consist of one brick structure, 50 by 90 feet, and a wing on the south side connected with it by a hall and stairway. The wing has the same frontage and depth, but is only half the width at the rear, a large court-yard between the portions of the building admitting light and air to all the rooms. Both portions are of the same height, two stories and basement, and they contain school-rooms, dormitories, dining-rooms, rooms for teachers, &c.

4. Capacity: One hundred and twenty-five children, fifteen aged women.

5. Number of inmates: One hundred and twenty-nine.

6. Daily average: About 110.

7. Compensation: Two thousand two hundred and fourteen dollars and sixty-six cents.

8. Itemized statement of expenses: Already returned by the treasurer, Mrs. L. S. Doolittle, to the Commissioners' office.

9. Recommendations: The association would respectfully urge upon the Commissioners the necessity for a larger annual appropriation. Although the building will accommodate at least 30 more inmates than at present, the management are obliged to turn away the applicants because they have not the means to feed and clothe them.

The attention of the Commissioners is also called to the imperative need of improvement in the surrounding sanitary conditions, which have more than once been inspected and reported upon by the Health Officer. The uncovered sewer, with its foul gases, which passes almost under the windows of the building, is a perpetual menace to the lives not only of the inmates of the home, but of the entire neighborhood.

Respectfully submitted.

HELEN A. COOK,
*Secretary of National Association
for Destitute Colored Women and Children.*

R 12.

To the honorable Commissioners:

In answer to the questions submitted by the Commissioners, I will state that the home in Georgetown, D. C., is known as the Aged Women's Home, for the accommodation of old women who are unable to provide themselves with a room.

2. Thirty-first street, between N and M streets.

3. Two-story brick building; cost of purchase and additions, about \$5,000.

4. Sixteen rooms.

5. Fourteen inmates.

| RECEIPTS. | |
|---|----------|
| From "charity fund" | \$250 00 |
| Interest on 3.65 District of Columbia bonds | 45 62 |
| Benevolent Society | 797 00 |
| Churches and voluntary contributions | 79 99 |

1,172 61

EXPENDITURES.

| | |
|-----------------------------|--------------|
| Fuel and groceries..... | \$797 00 |
| Insurance..... | 10 50 |
| Repairs..... | 70 46 |
| Clothing, medicine, &c..... | 110 35 |
| | <hr/> 988 31 |

Respectfully submitted.

MRS. B. W. KENNON,

President and Treasurer Aged Women's Home.

GEORGETOWN, D. C., November 26, 1886.

R 13

To the Commissioners of the District of Columbia:

In compliance with your request I submit the following report from the Benevolent Society of Washington for the fiscal year ending July 1, 1886:

During that year we received from you \$400 of the poor fund, in sums of \$100. An itemized report of the cases relieved was made to you on receipt of each check. The number of families relieved was 180; these families consisted of 478 individuals.

Only in three cases was money given; in all others tickets for fuel and groceries were issued.

We have endeavored, as usual, to carry out the purpose for which we were appointed in 1881 by the Commissioners, viz, to co-operate with the police, receiving from them much valuable assistance and information, and acting for them in some cases of peculiar delicacy not easily reached by any public organization.

We are indebted to the sanitary officer for his prompt courtesy in moving patients to the hospitals, &c.

In answer to your request for suggestions, we respectfully reply that we believe that there will be much suffering this winter, and we think that the best way to relieve it is to put more money in the hands of the police, who thoroughly understand the poor and are best able to assist them.

Very respectfully,

HARRIET LORING,
Secretary and Treasurer.

R 14.

[Woman's Dispensary, 925 Tenth street, northwest.]

WASHINGTON, November 29, 1886.

GENTLEMEN: I have the honor to submit to you the inclosed report of the work done at the Woman's Dispensary for the year ending June 30, 1886. In so far as possible I have endeavored to give you the information requested.

Very respectfully,

JEANNETTE J. SUMNER, M. D.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

416 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

The purpose of this institution is to provide a place for the treatment of the medical and surgical diseases of women and children by physicians who shall be women.

It is located at 925 Tenth street northwest, between New York avenue and K street.

Operations from June 30, 1885, to June 30, 1886.

| | Number. |
|--|---------|
| Visits..... | 2,110 |
| New patients..... | 625 |
| White patients..... | 58 |
| Colored patients..... | 567 |
| Prescriptions compounded..... | 2,053 |
| Applications to diseased surfaces..... | 810 |
| Surgical operations..... | 4 |

NATIONALITY.

| | |
|---------------|-----|
| American..... | 611 |
| Canadian..... | 2 |
| English..... | 2 |
| German..... | 3 |
| Irish..... | 4 |
| Swede..... | 2 |
| Swiss..... | 1 |

CIVIL STATE.

| | |
|---------------|-----|
| Married..... | 343 |
| Single..... | 177 |
| Children..... | 105 |

ITEMIZED STATEMENT OF RECEIPTS AND EXPENDITURES.

| | |
|---|--------------|
| Total amount received from November 14, 1884, to November 30, 1886: | |
| From former treasurer..... | \$40 32 |
| From District Commissioners: | |
| February 17, 1885..... | 50 00 |
| April 8, 1885..... | 12 50 |
| May 10, 1885..... | 12 50 |
| June 11, 1885..... | 12 50 |
| February 11, 1886..... | 57 50 |
| May —, 1886..... | 25 00 |
| June —, 1886..... | 12 50 |
| July —, 1886..... | 12 50 |
| October 4, 1886..... | 267 50 |
| | <hr/> 492 82 |
| Received from subscriptions at different periods..... | 160 00 |
| Received from patients at different periods..... | 108 68 |
| Donation June 27, 1885..... | 557 24 |

SUMMARY.

| | |
|---|----------------|
| From former treasurer and District Commissioners..... | \$492 82 |
| Subscriptions..... | 160 00 |
| Patients..... | 108 68 |
| Donation..... | 557 24 |
| Total receipts..... | <hr/> 1,318 74 |

Expenses from November 29, 1884, to November 30, 1886.

| | |
|---------------------------------------|----------|
| Rent..... | \$650 00 |
| Furniture, bedding, crockery, &c..... | 25 10 |
| Plumbing..... | 8 00 |
| Printing..... | 25 00 |
| Drugs..... | 241 55 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 417

| | |
|--|----------|
| Instruments | \$40 60 |
| Fuel | 36 63 |
| Board and nursing of patients | 55 15 |
| Water tax | 7 16 |
| Postage-stamps | 1 00 |
| Total expenditure | 1,090 19 |
| Reception | 1,318 74 |
| Expenses | 1,090 19 |
| Balance in bank and cash in hand | 228 55 |

S.—REPORT OF THE INSPECTOR AND MEASURER OF WOOD, ANACOSTIA DISTRICT.

WASHINGTON, D. C., August 23, 1886.

GENTLEMEN: Please find inclosed statement of wood inspected and measured in Anacostia district from July 1, 1885, to June 30, 1886, inclusive.

Very respectfully,

A. W. EATON,
Inspector and Measurer of Wood for Anacostia District,
District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Statement of wood inspected and measured in Anacostia district.

| Month. | Number of cords of pine. | Number of cords of oak. | Number of cords of hickory. | Total number of cords. |
|-----------------|--------------------------------|-------------------------------|-----------------------------------|------------------------------|
| 1885. | | | | |
| July | 776½ | 204½ | ..... | 981 |
| August | 756½ | 85 | ..... | 841½ |
| September | 683½ | 137 | ..... | 820½ |
| October | 740½ | 205½ | 51½ | 997½ |
| November | 406 | 172 | ..... | 578 |
| December | 268 | 87 | ..... | 355 |
| 1886. | | | | |
| January ..... | ..... | ..... | ..... | ..... |
| February ..... | ..... | ..... | ..... | ..... |
| March | 235 | 124 | ..... | 359 |
| April | 659 | 109 | ..... | 768 |
| May | 482½ | 137½ | ..... | 620 |
| June | 453 | 89½ | ..... | 542½ |
| Total ..... | ..... | ..... | ..... | 6,862½ |

WASHINGTON, D. C., November 12, 1886.

DEAR SIR: Replying to your favor of the 10th instant, I would say that during the year ending June 30, 1886, I inspected and measured 16,287½ cords of wood.

Very truly,

H. A. JONES.

Dr. WM. TINDALL, Secretary, &c.

H. Ex. 1, pt. 6—27

GEORGETOWN, D. C., *November 8, 1856.*

GENTLEMEN: I have the honor to report that during the fiscal year ending June 30, 1856, I inspected and measured 5,785 cords of wood, which arrived by way of the river and canal, coming, as nearly as I can ascertain, in equal parts from Maryland and Virginia; about one-fifth of it coming by way of the canal.

I am glad to be able to report that affairs in the Rock Creek district are in good working order which has been attained by much care and constant attention to duty. There seems to be a growing tendency toward a collusion between the captains of wood vessels and wood corders to cord the wood in such a manner as to make it appear that the ranks contain more wood than the measurer finds them on inspection to contain. As this collusion must necessarily lead to corruption, I would respectfully suggest that some measure be adopted to prevent the payment by the vessel captains to the corders for a greater number of cords than is certified by the measurer as having been corded in each instance.

Very respectfully, your obedient servant,

HENRY BURROWS,

Inspector and Measurer of Wood, Rock Creek District.

THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

T.—REPORT OF THE INSPECTOR OF FLOUR.

WASHINGTON, D. C., *November 2, 1886.*

GENTLEMEN: I herewith submit my report for the amount of flour inspected by me from June 1, 1885, to June 1, 1886:

| | Barrels. |
|--------------------|----------|
| Family flour | 137,641 |
| Extra flour | 1,426 |
| Super flour | 436 |
| Rye flour | 1,714 |
| Condemned | 490 |
| Total | 141,707 |

Your obedient servant,

J. H. WELCH,

Flour Inspector, Washington, D. C.

THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

GEORGETOWN, D. C., *August 18, 1886.*

List of flour inspected by Jacob F. Staub for the year ending June 30, 1886:

Total number of barrels, 46,769.

JACOB F. STAUB.

U.—REPORT OF THE INSPECTORS OF LUMBER.

WASHINGTON, D. C., *July 18, 1886.*

GENTLEMEN: We have the honor to submit the following report of the lumber measured and inspected by us for the fiscal year ending June 30, 1886:

| | Feet. |
|------------------|--------------|
| Yellow pine..... | 13, 532, 545 |
| White pine..... | 44, 782 |
| Poplar..... | 222, 357 |
| Cypress..... | 31, 736 |
| Walnut..... | 4, 097 |
| Cherry..... | 14, 404 |
| Gum..... | 6, 994 |
| Hickory..... | 6, 276 |
| Oak..... | 26, 855 |
| Ash..... | 41, 528 |
| Beech..... | 428 |
| Total..... | 13, 932, 002 |

Respectfully submitted.

GEO. Z. COLISON,

E. CHAMPLIN,

E. L. HARBAUGH,

Inspectors and Measurers of Lumber.

To the COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

GEORGETOWN, *July 23, 1886.*

GENTLEMEN: If you have no objection of an ex-inspector making a report, I would submit the following for your information:

Inspected and measured for the year ending July 18, 1886, for the port of Georgetown, 5,510,462 feet of yellow-pine lumber.

Respectfully,

C. THOMAS,

Ex-Inspector.

COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

WASHINGTON, D. C., *July 19, 1886.*

GENTLEMEN: I herewith respectfully submit a detailed statement of the operations of my office for the fiscal year ending June 30, 1886:

Quantities and kinds of lumber measured and inspected.

| | Feet. |
|------------------|-------------|
| Yellow pine..... | 5, 917, 209 |
| Ash..... | 33, 341 |
| Walnut..... | 1, 734 |
| Poplar..... | 40, 125 |
| Oak..... | 11, 156 |
| Cypress..... | 15, 649 |

6, 019, 214

Very respectfully,

THOS. R. RILEY,

Lumber Inspector.

The COMMISSIONERS OF DISTRICT OF COLUMBIA.

V.—REPORT OF THE INDUSTRIAL HOME SCHOOL.

WASHINGTON, D. C., *November 5, 1886.*

GENTLEMEN: We herewith transmit the annual report of the board of managers of the Industrial Home School of the District of Columbia, showing the operations of the institution for the year ending June 30, 1886, and the treasurer's report for the same period.

Very respectfully,

CHARLES E. FOSTER,
President.

HULDAH W. BLACKFORD,
Secretary.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

ANNUAL REPORT OF THE INDUSTRIAL HOME SCHOOL.

The annual report of the Industrial Home School for the year ending June 30, 1886, is herewith presented.

The general organization of the institution, its management, &c., has been stated in previous reports.

THE YEAR'S WORK.

| | |
|---|-----|
| Number of children cared for during the year | 142 |
| Admitted during the year | 47 |
| Discharged during the year | 52 |
| Of whom there were returned to friends | 33 |
| Provided with homes | 5 |
| Absconded | 12 |
| Died | 2 |
| Number in Home July 1, 1886 | 87 |
| Monthly average during the year | 89 |
| Adult paupers maintained | 2 |
| Officers and employés | 13 |
| Average family | 103 |
| Average age of the children in the institution July 1, 1886 | 9 |
| Number who had been in the institution less than one year | 35 |
| One year | 11 |
| Two years | 13 |
| Three years | 6 |
| Four years | 8 |
| Five years | 6 |
| Six years | 4 |
| Seven years | |
| Eight years | 1 |
| Nine years | 3 |

COST OF MAINTENANCE.

The total cost of maintenance was \$10,107.29, or \$111.07 per capita.

This calculation does not include any outlay, however necessary, which does not enter directly into the support of the inmates, such as for furniture, household utensils, &c., but includes all other expenditures, such as the cost of food, clothing, fuel, and pay of employés.

ADMISSION AND DISCHARGE OF WARDS.

Inmates are admitted into the Home upon the written request of guardians or friends after investigation as to the necessities of the case.

In very many instances the benefits of the institution are sought in consequence of the husband criminally neglecting to provide for his family. This occurs so frequently that it is apparent that power ought to be lodged somewhere to compel the father to set aside part of his earnings for the benefit of his wife and children.

Application is sometimes made to place children in our Home by persons who are well able to care and provide for their progeny. Several requests of this character have been made during the past year, which were of course refused.

Besides making careful inquiry as to the means and character of the applicants, each child is submitted to a medical examination before being certified for admission, in order to ascertain its condition of bodily or mental health.

This has been of great benefit, as it has prevented the introduction of disease, and we attribute the general good health of the inmates the last few years to the rigid observance of this salutary regulation.

It has been an unpleasant, though necessary, duty during the past year to refuse admission to three children, who were unfortunately afflicted mentally, and the want of some institution in our midst where weak-minded children can be cared for is to be deplored. It is impossible for our managers to admit demented and weak-minded children; we could not properly attend to their wants, and, moreover, such inmates would disorganize and demoralize the others. To train children of defective intellect requires specialists, to send them to the lunatic asylum would be cruel and inhuman, and it has been a sad experience to the committee on admission not to be able to refer such cases to some suitable place of refuge in our District.

In addition to direct petitions by relatives, application is frequently made by kindred societies for placing youth of both sexes in the Home, as a fit refuge for dependent children. In all such cases we endeavor to cheerfully co-operate with the many eleemosynary associations of the District. The Children's Aid Society, the Humane Society, the Associated Charities of the District, and other such organizations have during the past year secured shelter in our Home for many unfortunate waifs. Requests for such purposes from kindred societies are always complied with as soon as vacancies occur. Officer O'Neill, of the Humane Society, has been of valuable assistance in making investigations. It is gratifying to the managers to be able to act in unison with the other benevolent associations. We have been compelled to deny admission to a great many worthy applicants for reason of want of room, and because our expenditures must be kept within the limits of our income. The maximum number we can house, feed, and instruct is one hundred, yet experience has shown that we should be able to accommodate at least three times this number. It would be wise economy to the commonwealth, it would be humane, and the highest degree of statecraft to have the doors of an industrial home always open for admission of every worthy petitioner. We cannot but sorrowfully reflect that the want of the ability to meet all proper demands on our institution often may relegate the applicant to walks of misery and crime, while if we had the means to train up the child in the way it should go, and instill habits of industry and morality, the State in the end would be largely the gainer.

The difficulties attending the discharge of inmates are quite serious. Often a shiftless parent, after seeing the progress of the child both in industries, deportment, and scholarship, desires its withdrawal for the purpose of utilizing its labor, and uses artifice for the purpose of taking

the child to improper surroundings. As our aim is the thorough education of our wards mentally, morally, and religiously, besides imparting elementary instruction in industries that will aid them in after life in following a suitable avocation, consent is never given to the discharge of any child without investigation. Yet we are often thwarted, as we have no power to retain a child against the importunities of a scheming parent.

Applications are sometimes made by farmers and persons in the country for children, ostensibly for adoption. Frequently such requests, upon investigation, are found to be simply to use the child as a menial, without giving it pay or affording it that instruction and training to which every minor is entitled. It is true that the policy of our institution is to make our wards love labor, whether in the field, the household, or the workshop, but we never feel warranted in placing children of immature age to perform arduous tasks until fully prepared for such duties.

During vacation and during the Christmas and New Year's holidays some of the inmates are permitted to visit their relatives for a limited period.

Although it is not our desire to exile children from family connections, yet such leaves of absence have frequently been found to be objectionable and to produce demoralizing results. The discipline of the ward being for the time relaxed, often among questionable associations, upon its return the salutary lessons of morality, obedience, and religion acquired in the Home become impaired, and the teachers with pain and sorrow find that the labor to undo the baleful influences of a brief period is a very arduous task.

The committee in charge of this branch of our work have, in obedience to instructions of the managing board, been compelled to enforce more rigid rules in respect to leaves of absence, and in future none will be granted unless evidence is produced that visits will be made to fit places, under control of persons of character and discretion.

INDUSTRIAL EDUCATION.

The object of the instruction in the industrial department is not at present to teach specific trades, or to train the scholars to become operatives in any particular branch of industry, but to educate them in the elementary principles of handicrafts in connection with their ordinary school studies.

We believe that the training of the hands no less than the training of the head is essential to the proper education of a child. Fræbel, putting into practice the theories of Pestalozzi, founded the kindergarten, which develops the child by natural law, teaching through object lessons things instead of words. This is now a recognized department of infant education. Based on the same general principle, the tool-house is the natural successor of the kindergarten. For children between the ages of seven and sixteen, at the intermediate stage between infant education and the actual trade, manual training finds its place. Teaching the use of tools and the principles of handicrafts *pari passu* with instruction in the ordinary branches of study is the true theory of education. This system of industrial training is founded on common sense; its value has been demonstrated by practical tests, and it has already taken its place as a recognized factor in public education in Russia, Germany, France, and in several States of the Union. Especially for the class of children under our charge does it afford the

best training to prepare them for the subordinate offices of life which they will be called upon to fill, teaches the dignity of labor, and promotes habits of industry and self-dependence.

The result of the instruction in this department the past year has been on the whole quite satisfactory. The average age of the inmates is only nine years, and it should not be expected that with two or three hours' work a day any kind of labor will be remunerative, but by economical management the industries have been self-sustaining and a small profit realized therefrom. Pecuniary profit should not be the main consideration, and additional means for instruction in this direction are needed. If a boy shows aptitude for any special trade, opportunities will be afforded for his learning it as thoroughly as the facilities at our command will allow.

CARPENTERING.

Instruction in the use of wood-working tools is of more practical importance than any other one branch or industry, excepting farm work. The skilled carpenter can find employment in any city or town at remunerative wages, and knowledge of the use of the hammer, saw, chisel, and plane is useful in any trade or calling in life.

The committee on industries early in the year took steps to establish more systematic instruction than had heretofore been given in this industry. An outfit for four boys of first-class tools was purchased for about \$50. A list of articles is given, as showing what is necessary to complete a set:

| | | | |
|---------------------------|---|----------------------|---|
| Fore-plane | 1 | Jack-plane | 1 |
| Smooth-plane | 1 | Rip-saw | 1 |
| Cross-cut saw | 1 | Tenon-saw | 1 |
| Hammer | 1 | Screw-driver | 1 |
| Pair compasses | 1 | Brace | 1 |
| Bevel | 1 | Set chisels | 1 |
| Chisel-handles | 2 | Set auger-bits | 1 |
| Large square | 1 | Try-square | 1 |
| Drawing-knife | 1 | Counter-sink | 1 |
| Gauges | 2 | Gimlet-bit | 1 |
| Brad-awl and handle | 1 | Spoke-shave | 1 |
| Two-foot ruler | 1 | Pencil | 1 |
| Oil stones for all | 2 | | |

A hatchet for general use was already provided.

Eight pupils were selected for instruction, their ages being from ten to fifteen, and were organized into two classes of four boys each, who worked an hour every day, one class in the morning and one in the afternoon.

Instruction was commenced in January, and in June samples of work were shown which indicated rapid progress.

Besides learning how to handle and use the tools, they had learned to make dove-tails, mortices, and tenons, and the various joints used in carpentering. Some of the work done would be creditable to any workman.

The instruction is oral and practical. "How to Use Wood-working Tools," a manual prepared by a committee of the Industrial School Association of Boston, has been found suggestive.

The shop is supplied with a ten-horse-power engine, a turning-lathe, shafting and belting for machinery, a molding-machine, a circular saw, a jig-saw, and a grind-stone. The boys have received instruction incidentally in some branches of work in connection therewith.

Tree-boxes and stakes have been furnished to the parking commission of the District, as heretofore. This has been the main source of revenue for maintaining the expenses of the shop. Some few items of furniture have been made and sold. In view of the fact that no more tree-boxes will be required the present year, the shop will not be likely to pay expenses unless something can be manufactured from which a revenue can be derived. This matter is now being made the subject of inquiry.

There is about \$600 worth of lumber on hand which can only be used for tree-boxes. This will prove a loss unless the business is resumed, as it may be another year.

The wages paid the carpenter were \$2 per day, he providing his own board.

| | |
|--|--------|
| Number of stakes supplied during the year..... | 46,000 |
| Number of tree-boxes made and supplied | 3,000 |

The following is the balance-sheet for the year :

| DR. | |
|--|------------------|
| Material on hand July 1, 1885 | \$208 25 |
| Fuel, lumber, and other material purchased, including expenses of freight, wharfage, &c..... | 2, 831 70 |
| Tools purchased | 59 13 |
| Repair of steam boiler..... | 120 00 |
| Wages of carpenter | 626 00 |
| Balance in favor of shop | 311 65 |
| Total..... | 4, 156 73 |

| CR. | |
|---|------------------|
| Cash received from the District Commissioners for stakes and tree-boxes.. | \$3, 371 39 |
| Cash received for other work done..... | 36 25 |
| Material on hand July 1, 1886 | 749 09 |
| Total | 4, 156 73 |

THE GREENHOUSE.

The greenhouse has been thoroughly refitted and put in shape, and instruction has been given in the propagation and care of flowers and other ornamental plants with good results.

The number of boys receiving instruction has been four, their ages being from 11 to 13. Two are with the florist in the forenoon and two in the afternoon.

This branch has been an expense this year, as was expected, but we feel justified in the belief that it has now been placed upon such a footing as to be self-sustaining.

This is considered one of the most important branches of industry. Boys educated to become good florists will find ready employment. One lad instructed in this branch in this institution has now permanent employment at good wages.

The services of a florist to superintend the greenhouse and give instruction were obtained at a salary of \$30 a month and board.

The following is a statement of receipts and expenses :

| EXPENSES. | |
|----------------------------|-------|
| Repairs..... | 27 75 |
| Fuel purchased | 60 00 |
| Implements purchased | 18 20 |

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| | |
|--|---------|
| Plants, seeds, and fertilizers | \$52 26 |
| Flower-pots | 39 00 |
| Rent of stall in market for selling plants | 6 50 |
| Florist's salary | 225 00 |
| Total | 428 71 |

RECEIPTS.

| | |
|-------------------------------|----------|
| Flowers and plants sold | \$217 69 |
| Net loss | 211 02 |

To offset this we have a stock on hand of greater value than the apparent deficit.

AGRICULTURAL DEPARTMENT.

Instruction in farm work and gardening is made a prominent feature in the line of industrial training. The farm upon which the Home is located consists of about 17 acres, of which some 8 are under cultivation. Four cows and two horses are kept upon the place. The boys of suitable age help take care of the chickens and the stock, and do such other work about the place as occasion requires during the year, rotating, so as to give all an opportunity to do their share of work. In the summer months the garden gives employment to a larger number.

The following is a list of the garden products raised during the year, which was the most unprofitable season for five years:

| | | | | | |
|--------------------|-----------|-------|-----------------------------|-----------|-------|
| Strawberries | quarts.. | 1,300 | Raspberries | quarts.. | 184 |
| Cherries | do.... | 150 | Currants | do.... | 60 |
| Gooseberries | do.... | 80 | Blackberries | do.... | 60 |
| Pears | bushels.. | 3 | Grapes | pounds.. | 1,000 |
| Green corn | do.... | 400 | Turnips | bushels.. | 41 |
| Parsnips | bushels.. | 8 | Onions | do.... | 25 |
| Green peas | pods.. | 30 | String and Lima beans | do.... | 25 |
| Asparagus | bunches.. | 225 | Beets | do.... | 55 |
| Potatoes | bushels.. | 120 | Tomatoes | do.... | 39½ |
| Carrots | do.... | 8 | Egg plants | do.... | 2 |
| Lettuce | do.... | 175 | Cabbages | head.. | 600 |
| Cauliflower | head.. | 100 | Spinach | barrels.. | 15 |

Most of these articles were consumed on the place. Some have been sold.

Fodder and about three and a half tons of hay were also raised.

The cows have yielded on the average ten gallons of milk per day, sufficient to supply the institution.

The following is a statement of the garden and farm account for the year:

DR.

| | |
|---|----------|
| To wages paid | \$345 00 |
| To seeds and implements | 94 09 |
| To manure purchased | 48 91 |
| To cost of keeping animals, exclusive of feed raised on the place | 125 00 |
| Balance profit | \$613 00 |
| | 187 00 |
| | 800 00 |

CR.

| | |
|--------------------------------|----------|
| By value of crops raised | \$800 00 |
|--------------------------------|----------|

The crops being mainly consumed upon the place, there was no income under this head actually realized from the labor of the inmates such as the law requires to be paid into the Treasury of the United States and the District of Columbia.

The net revenue from the industries, amounting to \$98.61, has been deposited in compliance with law.

GIRLS' INDUSTRIAL DEPARTMENT.

This department comprises the sewing school, the cooking school, the laundry, and other branches of household work. The girls are well taught in all branches of domestic work and trained to be good housekeepers.

KITCHEN GARDEN.

The "kitchen garden" has been established during the year by the housekeeping committee. The system pursued is similar to the kindergarten, though somewhat more advanced. By this system young girls are instructed in various branches of household work. The instruction is given by means of toys, illustrating domestic operations, and the children are directed in their play with these toys so that they learn many household duties and come to associate household work with pleasure and enjoyment. The course is divided into different occupations to each of which a month's time or eight lessons is devoted, two lessons being given each week. The lessons embrace fire-kindling, waiting on the door, setting and clearing the table, house cleaning, making beds, sweeping, laundry work, and so on, through the different occupations pertaining to housekeeping.

This system of instruction was originated by Miss Emily Huntington, of New York City, and the first "kitchen garden" opened there in 1877. Since that time it has been introduced into schools in many prominent cities, and is a means of inspiring an early love for domestic work, and training the youngest in habits of order and neatness.

The cost of establishing it, including the purchase of a piano, was \$94.39, which sum was contributed by friends of the school.

SEWING.

The girls receive regular instruction in this branch from the seamstress. All the clothing required for the inmates is made at the Home except that occasionally a few Sunday suits for the larger boys are purchased. The mending is all done by the pupils with the assistance of the Home employés. All the girls over twelve learn to use the sewing-machine.

The following is a list of articles cut and made during the year:

| | | | |
|-----------------------------|-----|-----------------------------|-----|
| Aprons..... | 43 | Pillow-cases..... | 50 |
| Blankets hemmed..... | 40 | Petticoats..... | 10 |
| Blocks pieced..... | 122 | Quilt..... | 1 |
| Bedticks..... | 8 | Shirts..... | 183 |
| Curtains..... | 15 | Shirt waists..... | 110 |
| Coats..... | 47 | Sun-bonnets..... | 5 |
| Collars..... | 15 | Sheets..... | 47 |
| Cuffs..... | 4 | Towels..... | 62 |
| Dresses..... | 57 | Table-cloths..... | 2 |
| Drawers..... | 149 | Trowsers..... | 105 |
| Kitchen-garden caps..... | 12 | Wraps..... | 5 |
| Kitchen-garden dusters..... | 12 | Kitchen-garden bedding..... | 9 |
| Night-gowns..... | 53 | Made-over garments..... | 142 |
| Napkins..... | 24 | | |

The average weekly mending is quite an item. No account of it is kept, but the following is the estimate: 65 pairs of stockings; 175 to 200 pieces additional.

FANCY NEEDLE-WORK.

The girls also receive instruction in knitting, rug-making, and fancy work, and a number have learned to excel in this class of work.

In November an industrial class for fancy work was started and continued till April.

Three ladies, Mrs. Foster, Mrs. Tupper, and Miss Bartlett acted as teachers, going out every Tuesday, the session holding one hour.

There was an average attendance of fourteen girls, from ten to sixteen years of age, and they were taught to knit, crochet, and embroider.

The older ones knit mittens, and the younger ones made a small afghan, and several pieces of outlining were finished.

The instruction was eagerly received and much benefit resulted. It is hoped the class will be continued. Many ladies are willing to give their time to the work if arrangements can be made to transport them to and from the Home.

COOKING.

A class of five girls from twelve to fifteen years of age received practical instruction in plain cooking from the housekeeper, Miss Parker. The lessons were given weekly, generally two hours in length. They learn to make stews, bake and boil meats, cook vegetables, make bread, pudding, pie, and cake. They take turns in helping about the dinner every day, and once a week prepare a dinner themselves for the family.

THE LAUNDRY.

A class of the older girls have received instruction in laundry work from Miss Nash, the cottage matron. The lessons are given once a week. They learn to wash, starch and iron their own white dresses, and small pieces. The main laundry work of the school is done by colored servants.

SHOEMAKING.

The shoe shop was discontinued three years ago. The propriety of resuming it is suggested for the consideration of the association. A shoemaker to teach the boys would involve an expense of \$45 to \$50 per month.

The extra expense the first year would be, it is estimated, about \$150. The amount paid for shoes for the inmates is about \$50 per month.

MODELING IN CLAY.

Instruction in this branch has been planned, and it is hoped will soon be carried out. It would be beneficial in any trade the pupil may adopt, and an excellent preparation for work in wood, iron, or stone. Stone-cutters who can carve in stone can get work at wages from \$6 to \$15 per day. Wood carvers can also receive good wages.

The teaching of industries can only be intelligently carried on through the aid of educated teachers regularly employed. Teachers are needed in the mechanical branches; and as the fund which has been our principal source of revenue for industrial education, viz, that derived from the manufacture of tree-boxes, will fail us this year, an appropriation for at least \$500 for teaching industries is earnestly recommended.

SILK CULTURE.

The project of introducing silk culture has been agitated, and 150 mulberry plants have been set out on the grounds.

The establishment of a small reeling school, where the pupils could be instructed in this industry, was contemplated if the Bureau of Agriculture received a sufficient appropriation from Congress. As stated by the Commissioner of Agriculture, in his letter of April 17, 1886, to Senator Allison (Cong. Rec., June 11, 1886), if the plan proposed was carried out "the triple work would be accomplished of assisting this industrial institution, which Congress has already fostered, in preparing its pupils to earn a livelihood, of training a small corps of trained operatives, and determining for the benefit of the country at large whether or not they have anything to hope from the industry under consideration."

The plan, however, seems to have failed for the present, as explained in the following letter:

UNITED STATES DEPARTMENT OF AGRICULTURE,
COMMISSIONER'S OFFICE,
Washington, D. C., August 5, 1886.

SIR: I am in receipt this morning of your communication of the 5th instant, with its inclosure of a permit to erect a building on the grounds of the Georgetown Almshouse for the purpose of certain experiments in silk-reeling. I would suggest that your organization take no further steps in this matter until I can determine finally whether or not these experiments shall be conducted at the Industrial Home. I am thinking of conducting them on the grounds belonging to this Department. If conducted elsewhere, the persons in charge will necessarily have to expend both time and money in traveling between the Department and factory, and which may greatly interfere with their duties here. I find that I have a building here in which there is plenty of space for this experiment, and where it can be conducted at much less expense, I think, and certainly with less inconvenience to the Department. Mr. Walker is very sanguine of success. Should this be the case, members of Congress and visitors from every section will be greatly interested, and the personal observations which they will wish to make can be made with less inconvenience here than by being obliged to go to Georgetown in all sorts of weather. In fact, if the factory were placed in a remote quarter of the city it might deter many from going at all. It is just as important to the industry that the information gained should be disseminated as that it should be found, and therefore I am now considering the question of having all the experiments made here. I am not unmindful of the generous propositions which your organization has made, and I may yet be glad to avail of them, but I would like you to consider the matter as still undecided, and go to no expense or trouble until you hear further from me.

Very respectfully,

NORMAN J. COLMAN,
Commissioner of Agriculture.

Hon. ROBERT B. VANCE,
Vice-President, &c.

SCHOLASTIC EDUCATION.

There are two schools on the place, under the charge of public-school teachers of the District.

The whole number of pupils on the public-school rolls during the year was 120; average number, 84; average daily attendance, 83; per cent. of attendance during the year, 98.3.

The advancement of the classes was highly satisfactory, 95 per cent. of those in attendance the entire school year being transferred to higher classes. The curriculum of study corresponds in general with that of the same grades in other public schools, but it is borne in mind that the school life of nearly all the pupils ends at the age of 13 or 14, and

special attention is directed to the practical and necessary branches. Drawing, the basis of all industries, occupies a prominent place.

The older pupils attend school only half the day, being engaged the other half in industrial occupations. The progress made in studies is about the same as in schools where the pupils attend all day, demonstrating that three hours of brain-work are sufficient for young children and an argument for ingrafting industrial education on the public-school system of the country.

The closing exercises took place June 22, with an exhibition of the school exercises and industrial classes. On account of its being a stormy day the attendance was small, but those who were present seemed well pleased with the way the children acquitted themselves.

VACATION SCHOOLS.

On the recommendation of the superintendent a school was kept up during the summer vacation of the public schools. A teacher was employed for two months at a salary of \$20 per month. One-half of the children being too small for employment, it is necessary to have some one look after them to keep them out of mischief during the absence from the place of the public-school teachers. This school did well, and something of the kind should be made a permanent feature.

NEW BUILDINGS.

The sum of \$3,500 was appropriated by act of Congress approved July 9, 1886 (District appropriation bill), for the erection of a new building for the Industrial Home School.

The plan proposed by the building committee was to alter the old portion of the main building, retaining the old back wall and putting up a new front, two-stories high, and with 10-foot-wide porches, the first floor to be divided into three rooms, about 40 by 33, for school-room, dining-room, and play-room, and the second floor into several small dwelling-rooms.

Plans were prepared by Mr. Haller, the architect, accordingly, and submitted to the Commissioners of the District.

It was intended to have the work done during the summer under the management of the building committee, and the immediate supervision of the superintendent and architect, utilizing the time and labor of the employes of the Home, the material on the premises, and the labor of such of the inmates as could be profitably employed.

In this way the cost of the building would be materially reduced, and practical manual and industrial education would at the same time be imparted to those under the charge of the Home.

The final paragraph of the appropriation bill under the title "Public Schools, District of Columbia," required that the plans and specifications for all the buildings provided for in the act should be prepared by the inspector of buildings of the District, and should be approved by the Architect of the Capitol and the District Commissioners, and that the buildings should be constructed by the Commissioners in conformity therewith.

Owing to the late day on which the appropriation act passed, and the delay of the authorities to take action, it was found impracticable to commence operations this summer.

FINANCIAL.

As shown by the treasurer's report the receipts and expenditures for the fiscal year ending June 30, 1886, were as follows:

| | |
|--------------------|-------------|
| Receipts | \$18,026 16 |
| Expenditures | 16,091 55 |
| Balance | 1,934 61 |

There were unpaid bills at the end of the year, however, and the correct balance which can be applied to the expenses of the present year is \$448.87.

The income for the support of the institution for the year ending June 30, 1887, is estimated at \$12,298.87, from the following sources:

| | |
|---|-------------|
| Congressional appropriations, act of July 9, 1886: For maintenance of inmates, salaries, and necessary expenses | \$10,000 00 |
| For the Georgetown almshouse: For the support of inmates | 1,800 00 |
| Membership dues and donations | 50 00 |
| Balance available from last year | 448 87 |
| Total | 12,298 87 |

EMPLOYÉS AND SALARIES.

The following is a list of the employés and their salaries:

| | |
|--|---------|
| W. S. Stockbridge, superintendent | \$1,200 |
| Mrs. W. S. Stockbridge, matron | 300 |
| Miss Nash, cottage matron | 300 |
| Miss Parker, housekeeper | 300 |
| Miss Danielson, nurse | 180 |
| Miss Donovan, seamstress | 180 |
| Fillmore Donaldson, farmer and gardener | 345 |
| Theodore Williams, laborer | 300 |
| Housemaid | 120 |
| Two laundresses, at \$120 each | 240 |
| Carpenter (paid from proceeds of industries) | |
| Florist (paid from proceeds of industries) | |
| Thirteen employés at the Home | 3,465 |
| Clerk to treasurer | 100 |
| Total | 3,565 |

During the present fiscal year the seamstress will be paid \$5 per month additional, making \$240 per annum, and the laborer will be employed only eight months, reducing his pay to \$200 per annum.

BOARD OF MANAGERS AND COMMITTEES.

The following is a list of the officers and members of the Board of Managers, 1885-'6:

Mr. Charles E. Foster, president; Hon. R. B. Vance, vice-president; Mrs. H. W. Blackford, secretary; Mr. W. W. Curtis, treasurer.

Managers.—Mr. Lewis Abraham, Mrs. W. W. Curtis, Mrs. M. H. Doolittle, Hon. J. B. Edmonds, Mrs. Charles E. Foster, Mr. W. Nordlinger, Mrs. T. B. Palmer, Mrs. H. M. Teller, Mrs. J. B. T. Tupper, Mr. Philip Walker, Mr. B. H. Warner, Mrs. O. D. Conger, Mr. M. H. Doolittle, Mrs. Dorman B. Eaton, Mrs. J. B. Edmonds, Mr. F. L. Moore, Mrs. Emily Nourse, Dr. M. D. Peck, Mr. J. B. T. Tupper, Mrs. J. H. Voorhees, Hon. William B. Webb, Mrs. H. A. Willard.

The Board is divided into the following committees :

1. On education. 2. On admission and placement. 3. On industries. 4. On ways and means. 5. On greenhouse and garden. 6. On housekeeping. 7. On accounts. 8. On buildings, grounds, live stock. 9. On employés.

Regular meetings of the Board are held monthly, and special meetings when occasion requires. Copies of the by-laws and articles of incorporation are appended.

Respectfully submitted.

CHARLES E. FOSTER,
J. B. T. TUPPER,
LEWIS ABRAHAM,
Committee on Report.

INCORPORATION.

To all persons whom it may concern :

Know ye that A. M. Gangewer, A. B. Atkins, John Hitz, J. S. Blackford, A. K. Zeverly, M. H. Doolittle, Thomas Taylor, W. W. Dungan, M. V. Buckey, and Walter S. Cox have, on the 12th day of March, 1872, under and by virtue of authority granted by an act of Congress entitled "An act to provide for the creations of corporations in the District of Columbia by general law," approved May 5, 1870, agreed to amend their union as a body corporate, recorded in liber Deeds of Incorporation, D. C., folio 185, as follows, to wit :

To be known and designated under the name and style of the Industrial Home School of the District of Columbia, to consist of ten managers for the coming year, under which name and style they and their successors will devote themselves, and for the performance of all the duties and enjoyments of all rights and privileges usually performed and enjoyed by legally incorporated companies ; also to sue and be sued, implead and be impleaded, to receive and enjoy property, real and personal and mixed, and the same to receive and convey by gift, grant, bargain, or otherwise, and enjoy all the rights, privileges, and protections granted and guaranteed by and under the provisions of the above-recited act of Congress ; and they further agree and bind themselves and their successors forever to respect and be governed by the rules and regulations prescribed by said act of Congress.

In testimony whereof we have hereunto set our hands and seals the day and year first above written.

A. M. GANGEWER.
A. B. ATKINS.
JOHN HITZ.
J. S. BLACKFORD.
A. N. ZEVEVERLY.

M. H. DOOLITTLE.
THOMAS TAYLOR.
W. W. DUNGAN.
M. V. BUCKEY.
WALTER S. COX.

DISTRICT OF COLUMBIA, *County of Washington :*

I, Thomas J. Myers, a notary public in and for the county and District aforesaid, do hereby certify that A. M. Gangewer, A. B. Atkins, John Hitz, J. S. Blackford, A. N. Zeverly, M. H. Doolittle, Thomas Taylor, W. W. Dungan, M. V. Buckey, and Walter S. Cox personally appeared before me, in the District and county aforesaid, they being the parties to a certain instrument of writing dated on the 12th day of March, A. D. 1872, and hereto annexed, the said A. M. Gangewer, A. B. Atkins, John Hitz, J. S. Blackford, A. N. Zeverly, M. H. Doolittle, Thomas Taylor, W. W. Dungan, M. V. Buckey, and Walter S. Cox being personally well known to me as the persons who executed the said instrument of writing, and acknowledged the signing and sealing of the same as their act and deed.

Given under my hand and notarial seal this 12th day of March, A. D. 1872.

THOMAS J. MYERS,
Notary Public.

Received for record March 13, 1872, and recorded in liber Deeds of Incorporation, D. C., folio 193.

Examined by

S. WOLF, *Recorder.*

BY-LAWS OF INDUSTRIAL HOME SCHOOL.

ARTICLE 1. Any person may become a member of this association by vote of a majority of the members present at any regular meeting of the association or of the Board of Managers.

ART. 2. The officers shall consist of a president, vice-presidents, a secretary, and a treasurer, and a board of managers, 25 in number, of which the president, the vice-presidents, the secretary, and the treasurer shall be *ex-officio* members.

ART. 3. The president shall preside at all meetings of the association, and the Board of Managers sign orders on the treasurer for disbursement of money, and call special meetings of the Board of Managers of the association. In the absence of the president the duties shall be discharged by the vice-president.

ART. 4. The secretary shall keep the record of the proceedings of the meetings of the association and of the Board of Managers, and shall countersign and keep a list of the president's orders on the treasurer for the disbursement of money.

ART. 5. The treasurer shall keep the accounts and funds of the association, and pay the orders of the president when properly countersigned by the secretary, and make a report to the association at each annual meeting and to the Board of Managers whenever they require.

ART. 6. The Board of Managers shall direct all business of the association.

ART. 7. The officers shall be elected annually on the last Monday in October. Vacancies may be filled at special meetings, and a quorum for the election of officers shall consist of at least ten members. The officers shall continue to hold their offices until their successors are elected.

ART. 8. Any five members of the Board of Managers may call a special meeting of the Board of Managers or of the association. Such notice shall either be mailed or served personally at least two days previously to each member, or shall be published two days in a Washington newspaper.

ART. 9. These by-laws may be amended at any regular or duly called meeting of the association by a vote of a majority of the whole number of members or of two-thirds of the number present.

RULE.

The meetings of the Board of Managers shall be held on the second Monday of each month.

WASHINGTON, D. C., October 4, 1886.

SIR: As treasurer of the Industrial Home School, I beg to submit my annual report of the condition of the finances of the institution at the close of the fiscal year ending June 30, 1886, and of the receipts and expenditures during that year, as follows, viz:

RECEIPTS.

| | |
|--|-----------------|
| Cash in Second National Bank July 1, 1885..... | \$876 62 |
| Cash in United States Treasury July 1, 1885..... | 2 50 |
| Amount of Congressional appropriation..... | 12,000 00 |
| Amount received from District Commissioners, tree-box fund..... | 3,208 25 |
| Amount received from District Commissioners, maintenance fund..... | 1,636 60 |
| Amount received from membership dues..... | 38 15 |
| Amount received from sale of flowers and plants, &c..... | 209 19 |
| Amount received from miscellaneous sources..... | 54 85 |
| | <hr/> 18,026 16 |

EXPENDITURES.

| | |
|---|-----------|
| Total expenditures, as shown by Schedule B, herewith..... | 16,091 55 |
| Balance on hand July 1, 1886..... | 1,934 61 |

There have been received from the District Commissioners since the close of the last fiscal year the following amounts which should properly be included in the receipts of that year, to wit:

| | |
|--|--------------|
| Amount received from District Commissioners, tree-boxes, June, 1886..... | \$338 65 |
| Amount received from District Commissioners, maintenance fund, May, 1886..... | 151 90 |
| Amount received from District Commissioners, maintenance fund, June, 1886..... | 147 00 |
| | <hr/> 637 55 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 433

Add this amount (\$637.55) to the balance in my hands July 1, 1886 (\$1,934.61), and the total balance from the income of the year to meet the debts outstanding at that date will be seen to be \$2,572.16.

There were outstanding on July 1, 1886, bills to the amount of \$2,123.29, as shown by the accompanying Schedule A, so that after paying all indebtedness there remained from the year's income the sum of \$448.87, which may be used in the payment of expenses that may be incurred during the present fiscal year.

Very respectfully,

W. W. CURTIS,
Treasurer.

To the PRESIDENT OF THE BOARD OF MANAGERS
OF THE INDUSTRIAL HOME SCHOOL OF THE DISTRICT OF COLUMBIA.

Amounts expended for particular articles during the fiscal year ending June 30, 1886.

| | |
|--|-----------|
| Meats (ten months) | \$554 60 |
| Groceries (ten months) | 868 19 |
| Feed (twelve months) | 394 56 |
| New stable | 1,720 00 |
| Dry goods (fifteen months) | 538 35 |
| Bread (twelve months) | 1,237 81 |
| Pay-roll (twelve months) | 3,597 27 |
| Clerk to treasurer (twelve months) | 100 00 |
| Blacksmithing (including repairs to tools, wagons, &c.) | 151 63 |
| Carpenter (twelve months) | 626 00 |
| Hardware, including children's tools (twelve months) | 271 98 |
| Coal (eleven months) | 649 50 |
| Wood | 76 00 |
| Lumber, freight, wharfage, and hauling | 2,557 80 |
| Horse | 160 00 |
| Laborers and other temporary employes | 213 40 |
| Steam-boiler and repairs to machinery | 127 88 |
| Milk (two months) | 102 30 |
| Medicines (twelve months) | 164 79 |
| Clothing (four months) | 56 58 |
| Hats and millinery | 41 58 |
| Shoes (twelve months) | 598 05 |
| Physician (twelve months) | 49 00 |
| Cows and calves | 325 00 |
| Sundries (including repairs, stationery, carpets, brooms, house ware, &c.) | 909 28 |
| Total | 16,091 55 |

Disbursements by W. W. Curtis, treasurer Industrial Home School, District of Columbia, for fiscal year ending June 30, 1886.

| | |
|--|----------|
| William A. Dix, harness, &c., July, 1885 | \$85 15 |
| Mandley & Loeffler, on new stable | 350 00 |
| A. Remy, carpenter, July, 1885 | 54 00 |
| M. Silverberg & Co., fireworks, July, 1885 | 20 00 |
| Pay-roll, July, 1885 | 290 00 |
| Henry Wetzel, blacksmithing, July, 1885 | 2 65 |
| Lewis J. Collins, dark-brown horse, August, 1885 | 160 00 |
| W. H. Hurley, topping chimneys, August, 1885 | 25 00 |
| Mandley & Loeffler, on new stable | 350 00 |
| Mandley & Loeffler, on new stable | 300 00 |
| Wm. Pullin, plastering, August, 1885 | 37 50 |
| Mandley & Loeffler, on new stable | 350 00 |
| Mandley & Loeffler, extra on new stable | 20 00 |
| L. Solomon, 3 cows and calves, August, 1885 | 225 00 |
| Pay-roll, August, 1885 | 287 50 |
| A. Remy, carpenter, August, 1885 | 52 00 |
| Jonh T. Howard, binding books | 6 55 |
| Pay-roll, September, 1885 | 285 77 |
| A. Remy, carpenter, September, 1885 | 52 00 |
| Henry Wetzel, blacksmith, August, 1885 | 2 65 |
| Jos. & J. E. Libbey, lumber, July to September, 1885 | 1,299 59 |
| Fred. Stohlman, bread, July, 1885 | 83 72 |
| Fred. Stohlman, bread, August, 1885 | 107 31 |
| Fred. Stohlman, bread, September, 1885 | 105 63 |

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| | |
|--|----------|
| Luttrell & Wine, dry goods, July to October, 1885..... | \$147 93 |
| Buckey & Marbury, hardware, July, August, and September, 1885..... | 73 57 |
| G. W. Offutt & Bros., groceries, June, July, and August, 1885..... | 219 28 |
| G. W. Offutt & Bros., feed, June, 1885..... | 24 62 |
| G. W. Offutt & Bros., feed, July, August, and September, 1885..... | 72 92 |
| Pay-roll, October, 1885..... | 293 75 |
| Pay-roll, November, 1885..... | 260 25 |
| Pay-roll, December, 1885..... | 296 00 |
| A. Remey, carpenter, December, 1885..... | 54 00 |
| G. W. Offutt & Bros., groceries, September, October, November, and December, 1885..... | 394 97 |
| G. W. Offutt & Bros., feed, October, November, and December, 1885..... | 98 45 |
| Joseph & J. E. Libbey, lumber, October, November, and December, 1885..... | 829 08 |
| Charles Fischer, shoes and adjusting braces..... | 12 00 |
| Fred. Stohlman, bread, December, 1885..... | 86 59 |
| R. E. Dakin & Co., steam boilers, &c., February, 1886..... | 120 00 |
| M. Angie Brewer's kindergarten, October, 1884..... | 4 23 |
| Charles Viers, wheat, December, 1885..... | 10 00 |
| Buckey & Marbury, children's tools, January, 1886..... | 49 81 |
| W. Nordlinger, clothing, August, October, and November, 1885..... | 56 58 |
| Fred. Stohlman, bread, January, 1886..... | 101 36 |
| Carroll Daley, manure, February, 1886..... | 15 00 |
| Pay-roll, February, 1886..... | 300 00 |
| A. Remey, carpenter, February, 1886..... | 45 00 |
| P. W. Connelly, hay, February, 1886..... | 30 50 |
| Henry Wetzel, blacksmith, February, 1886..... | 2 55 |
| Pay-roll, January, 1886..... | 312 00 |
| B. Nordlinger, shoes, October, November, December, 1885..... | 170 30 |
| J. G. & J. M. Waters, cement, July, 1885, and February, 1886..... | 29 75 |
| Luttrell & Wine, dry goods, December, 1885..... | 37 04 |
| Fred. Stohlman, bread, February, 1886..... | 100 66 |
| Luttrell & Wine, dry goods, January and February, 1886..... | 47 19 |
| A. Remey, carpenter, March, 1886..... | 54 00 |
| N. J. Wagner, hay, corn, and meal, March, 1886..... | 46 37 |
| H. Burkhart, bedsteads, &c., January, 1886..... | 12 00 |
| John Lynch, blacksmith, July, 1885, to March 19, 1886..... | 15 00 |
| Buckey & Marbury, nails, March, 1886..... | 5 90 |
| Buckey & Marbury, hardware, January to March, 1886..... | 19 04 |
| John W. Coon, paperhanging, &c., October, 1885, to February, 1886..... | 11 63 |
| Fred. Stohlman, bread, March, 1886..... | 115 57 |
| Fred. Stohlman, bread, April, 1886..... | 87 85 |
| G. W. Offutt & Bro., groceries, February, 1886..... | 96 90 |
| G. W. Offutt & Bro., groceries, March, 1886..... | 91 62 |
| G. W. Offutt & Bro., bran, March, 1886..... | 2 00 |
| B. Nordlinger, shoes, January, February, March, and April, 1886..... | 187 70 |
| F. C. Perry, smoked meats, January to April, 1886..... | 17 50 |
| Pay-roll, May, 1886..... | 320 00 |
| A. Remey, carpenter, May, 1886..... | 52 00 |
| Margaret Cole, seamstress, &c., May, 1886..... | 7 95 |
| S. S. Shedd, latrobe castings, &c., February, 1886..... | 37 49 |
| Henry Wetzel, blacksmith, May, 1886..... | 21 92 |
| Luttrell & Wine, dry-goods, March, April, and May, 1886..... | 78 95 |
| Pay-roll, April, 1886..... | 312 00 |
| Sarah C. Smith, wood, June, 1886..... | 20 00 |
| W. F. Seymour, hats, July and August, 1886..... | 2 85 |
| Beckham & Middleton, fix boiler, &c., July, 1885, to January, 1886..... | 7 88 |
| A. Remey, carpenter, June, 1886..... | 52 00 |
| Pay-roll, June, 1886..... | 320 00 |
| R. D. Weaver & Bros., meats, February, March, May, and June, 1885..... | 213 38 |
| B. Nordlinger, shoes, April to June, 1885..... | 141 35 |
| Buckey & Marbury, April, May, and June, 1885..... | 42 80 |
| Fred. Stohlman, bread, May and June, 1885..... | 190 40 |
| William A. Dix, harness repairs, July, 1884, to April, 1885..... | 5 10 |
| John Lynch, blacksmith, October, 1884, to June, 1885..... | 18 00 |
| James & J. E. Libbey, lumber, April, May, and June, 1885..... | 238 01 |
| H. W. Blackford, postage, June, 1885..... | 4 57 |
| Dr. J. F. R. Appleby, physician, July, 1884, to July, 1885..... | 49 00 |
| W. S. Stockbridge, sundries, June, 1885..... | 41 42 |
| W. S. Stockbridge, expenses of trip to Spartanburg, S. C., May, 1885..... | 57 00 |
| Luttrell & Wine, dry goods, April to June, 1885..... | 130 57 |

| | |
|--|--------|
| Fritch & Sons, brooms, May, 1885 | \$5 50 |
| F. A. Law, clerk, first quarter 1885-'86 | 25 00 |
| E. H. Beans, milk, July and August, 1885 | 102 30 |
| B. Nordlinger, shoes, July, August, and September, 1885 | 86 70 |
| Thomas W. Smith, lumber, August, 1885 | 90 75 |
| J. K. Probey, wagon repairs, September, 1885 | 52 00 |
| H. Burkhart, chairs and rocker, August, 1885 | 6 75 |
| Mandley & Loeffler, on new stable | 250 00 |
| Mrs. R. Brace, medicines, April to June, 1885 | 34 75 |
| A. Remy, carpenter, October, 1885 | 54 00 |
| Eugene Heaney, farmer, &c., November, 1885 | 34 50 |
| Insurance on machinery to December, 1886 | 12 50 |
| Henry Wetzel, blacksmith, October, 1885 | 6 26 |
| A. Remy, carpenter, November, 1885 | 50 00 |
| John Watt, florist, November, 1885 | 40 00 |
| M. A. Conrow, kindergarten supplies, November, 1885 | 3 45 |
| W. S. Stockbridge, pigs, &c., October and November, 1885 | 18 89 |
| J. Burns, cow and calf, December, 1885 | 75 00 |
| Henry Wetzel, blacksmith, November, 1885 | 5 40 |
| R. D. Weaver & Bros., meats, July, August, September, and October, 1885 | 220 12 |
| F. A. Law, clerk, second quarter 1885-'86 | 25 00 |
| S. S. Shedd, plumbing and supplies, July and October, 1885 | 125 80 |
| Fred. Stohlman, bread, October and November, 1885 | 258 72 |
| W. S. Stockbridge, sundries, December, 1885 | 7 75 |
| John Watt, florist, December, 1885 | 16 65 |
| M. Wilson, wood, December, 1885 | 24 00 |
| Luttrell & Wine, dry goods, October and November, 1885 | 96 67 |
| Henry Wetzel, blacksmith, December, 1885 | 2 20 |
| M. Wilson, wood, January 2, 1886 | 12 00 |
| William A. Dix, harness, &c., August and December, 1885 | 12 75 |
| Hy. Hill, laborer, December, 1885 | 8 00 |
| Mayfield & Heiston, coal, February to June, 1885 | 254 50 |
| M. C. Mitchell, repairs to tins, January to April, 1885 | 2 90 |
| M. Wilson, wood, January 16, 1886 | 20 00 |
| Hy. Franc, hats and caps, November, 1885 | 17 50 |
| Mrs. R. Brace, medicines, July to December, 1885 | 93 25 |
| M. W. Beveridge, house ware, July, August, and October, 1885 | 30 06 |
| Buckey & Marbury, nails, October, November, and December, 1885 | 37 55 |
| Buckey & Marbury, hardware, October, November, and December, 1885 | 43 31 |
| A. Remy, carpenter, January, 1886 | 52 00 |
| M. C. Mitchell, stoves, &c., August to December, 1885 | 69 55 |
| J. G. & J. M. Waters, cement, June 6, 1885 | 1 50 |
| F. L. Moore, flowers, &c., March to June, 1885 | 66 36 |
| Paul Hiser & Sons, flower-pots, &c., February, 1886 | 33 50 |
| Margaret Cole, tailorress, January, 1886 | 5 67 |
| Mrs. P. Enrich, millinery, April to December, 1884 | 19 05 |
| Printing committee lists, December, 1885 | 2 00 |
| F. A. Law, clerk, third quarter 1885-'86 | 25 00 |
| W. S. Stockbridge, tobacco, stems, &c | 17 90 |
| Pay-roll, March, 1886 | 320 00 |
| Mayfield & Heiston, coal, July and December, 1885 | 395 00 |
| Hy. Wetzel, blacksmith, March, 1886 | 10 25 |
| R. D. Weaver & Bros., merchandise, December, 1885, and January, 1886 | 103 60 |
| William J. Layfield, freight, April 24, 1886 | 56 31 |
| A. K. Williams, stationery, July, 1885, to March, 1886 | 6 05 |
| Charles Frizzell, laborer, April, 1886 | 44 00 |
| A. K. Williams, stationery, February to June, 1885 | 4 65 |
| Hy. Wetzel, blacksmith, March, 1886 | 12 75 |
| Julius Lansburgh, carpet, October, 1885 | 26 53 |
| J. F. Payne, agent, repairs to shoes, March and April, 1886 | 20 75 |
| H. King, jr., hats and millinery, April, 1886 | 5 03 |
| A. Remy, carpenter, April, 1886 | 52 00 |
| J. W. Linthicum, hay and meal, April, 1886 | 31 25 |
| W. S. Stockbridge, exchanging cows, &c., April, 1886 | 29 80 |
| Mrs. Russell Brace, medicines, January, February, and March, 1886 | 36 79 |
| G. W. Offutt & Bros., groceries, January, 1886 | 65 42 |
| G. W. Offutt & Bros., feed, January and February, 1886 | 78 45 |
| F. L. Moore, plants, &c., June to October, 1885 | 27 73 |
| Hy. Griffin, painter, 1885 | 5 00 |

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| | |
|---|-----------|
| S. M. Waters, pump repairs, February, 1886..... | \$2 50 |
| W. S. Stockbridge, sundries, May, 1886..... | 55 50 |
| Thomas W. Riley, wharfage and hauling, April, 1886..... | 43 17 |
| F. A. Law, clerk, fourth quarter 1885-'86..... | 25 00 |
| Total expenditures..... | 16,091 55 |

Bills contracted during fiscal year 1885-'86, and remaining unpaid July 1, 1886.

| | |
|--|----------|
| Mayfield & Hieston, coal, January to May, 1886..... | \$206 50 |
| Paul Heiser & Sons, flower-pots..... | 5 50 |
| Cartright & Johnson, lime and plaster, July, August, December..... | 1 55 |
| John Saul, flowers, November, 1885..... | 4 00 |
| M. W. Beveridge, house ware, April, May, June, 1886..... | 8 25 |
| John Saul, flower-seeds, January, 1886..... | 2 25 |
| A. K. Williams, stationery, July to November, 1885..... | 3 40 |
| H. Hoffa, boards, November, 1885..... | 1 34 |
| S. K. Brown, tinware, &c., March, April, May, 1885..... | 8 03 |
| B. H. Stineutz & Son, hats, May, 1886..... | 16 25 |
| J. G. & J. M. Waters, cement, June and July, 1886..... | 6 25 |
| Joseph & J. E. Libbey, lumber, June, 1886..... | 11 10 |
| Mrs. P. Emrich, millinery, October, November, and December, 1885..... | 13 61 |
| G. T. Dunlap, seeds, &c., March to June, 1886..... | 34 97 |
| S. K. Brown, chamber sets, &c., September, 1885, to June..... | 16 80 |
| Dr. J. F. R. Appleby, physician, July, 1885, to July, 1886..... | 86 00 |
| Mrs. H. W. Blackford, postage, 1885-'86..... | 8 16 |
| Greenleaf, John, & Co., lumber, April, 1886..... | 504 25 |
| Treasurer United States and District Commissioners, amount deposited to cover net revenue for the year, under appropriation act..... | 98 61 |
| C. H. Bivens, renovating pillows and for new ticks, June, 1886..... | 2 40 |
| Joseph & J. E. Libbey, lumber, January to May, 1886..... | 49 60 |
| Henry Wetzel, blacksmithing, June, 1886..... | 2 88 |
| Roth & Geobegan, butter, cheese, and onions, March to May, 1886..... | 47 29 |
| Fred. Stohlman, bread, May, 1886..... | 107 38 |
| Joseph F. Birch, undertaker for Fred. Rush, January, 1886..... | 10 00 |
| R. D. Weaver & Bros., meats, November, 1885, February to June, 1886..... | 298 69 |
| B. Nordlinger, shoes, May and June, 1886..... | 123 95 |
| Buckey & Marbury, nails, April, 1886..... | 11 70 |
| Buckey & Marbury, hardware, April, May, and June, 1886..... | 14 61 |
| G. W. Offutt & Bro., groceries, April, May and June, 1886..... | 166 33 |
| G. W. Offutt & Bro., feed, April, May, and June, 1886..... | 55 11 |
| W. Nordlinger, clothing, January, May, and June, 1886..... | 41 07 |
| Fred. Stohlman, bread, June, 1886..... | 81 83 |
| James K. Probey, wagon repairs, November, 1885, and May, 1886..... | 9 75 |
| Mrs. Russell Brace, medicines, April to June, 1886..... | 32 40 |
| S. M. Waters, pump repairs, girls' cottage, June, 1886..... | 8 60 |
| M. C. Mitchell, buckets, &c., January to June, 1886..... | 5 65 |
| Jos. & J. E. Libbey, lumber, June, 1886..... | 11 10 |
| Total bills unpaid..... | 2,123 29 |

W.—REPORT OF THE BOARD OF TRUSTEES OF THE REFORM SCHOOL OF THE DISTRICT OF COLUMBIA.

REFORM SCHOOL OF THE DISTRICT OF COLUMBIA,

Washington, October 15, 1886.

GENTLEMEN: By reason of the death of Mr. George W. Adams, the president of the board of trustees, the duty of making this the seventeenth annual report of the workings of the school has devolved upon me.

In the death of Mr. Adams, which occurred on the morning of the 10th instant, the school sustained a great loss. He was a man of strict integrity, of wide acquaintance and influence, and warmly interested in

the welfare of the institution. Upon the announcement of his death a special meeting of the board of trustees was called, and the following resolutions unanimously adopted, which I include in this report, as showing the esteem in which he was held by his associates :

Whereas in the death of George W. Adams, the president of this board of trustees, this body has lost a wise and able counselor, one who at all times was willing to give his talents and his time to the administration of the affairs of the institution, and who in his service as trustee and president, by his courteous bearing, his kind and noble nature, endeared himself to each one of us: Now, therefore, be it

Resolved, That, as an expression of the grief which touches all our hearts, this board of trustees, together with officers of the school, attend his funeral, and that the school rooms be draped in mourning for a period of thirty days.

Resolved further, That, as an expression of our warm and hearty sympathy with his family in their irreparable loss, the secretary transmit to them a copy of the foregoing.

Since the opening of the school, twenty years ago, there have been received up to the close of the last fiscal year 1,185 boys, of which number 106 were received during the year. The superintendent, in his report appended hereto, gives statistical information in reference to those received during the year. Many of them have from their earliest recollection been surrounded by vice and wretchedness, and in consequence, upon entering the school, are found to be of the most difficult material from which to develop the best results. During the year 73 boys have met the requirements necessary to being awarded an honorable discharge. The board believe that the instruction and discipline they have had during their stay in the school has given to each a new start, and that many have thereby been fitted for lives of usefulness and honor.

The receipts of the school from all sources during the year, as will appear by the report of the treasurer, appended hereto, as follows :

| | |
|---|-------------|
| Received from appropriation for salaries and subsistence..... | \$36,616 00 |
| Received from appropriation for buildings and grounds..... | 1,800 00 |
| In all..... | 38,416 00 |

The disbursements of the treasurer, given in detail in his report, appended hereto, may be summarized as follows :

| | |
|---|-------------|
| Salaries and services..... | \$11,606 00 |
| Groceries, salt meats, fish, and ice..... | 4,798 62 |
| Flour and feed..... | 2,433 78 |
| Fresh meats..... | 2,185 14 |
| Dry goods, clothing, and hats..... | 2,581 34 |
| Leather, shoes, and shoe findings..... | 666 55 |
| Gas and fuel..... | 3,005 86 |
| Hardware, kitchen, table, and houseware..... | 424 86 |
| Seeds, fertilizers, harness, tools, wagons, and repairs to same, and blacksmithing..... | 1,451 65 |
| Stationery, books, and printing..... | 376 41 |
| Medicines and medical attention..... | 533 38 |
| Furniture, fencing, annual repairs, and machinery..... | 4,976 25 |
| Buildings and grounds..... | 1,607 42 |
| Necessary sundry expenses..... | 476 54 |
| Purchase of stock..... | 445 00 |
| Compensation, account, labor, &c..... | 554 25 |

| | |
|------------------------------------|-----------|
| Total amount of disbursements..... | 38,073 05 |
|------------------------------------|-----------|

Leaving unexpended balances amounting to \$342.95 to be covered back into the Treasury.

Agreeably to the act of Congress approved February 25, 1885, the revenue derived during the year from the labor of the inmates on the farm and in the shops has been covered into the Treasury to the credit of the United States and the District of Columbia in equal parts. As

stated in the report of the treasurer, the sum of \$3,311.67 was so deposited by him.

During the last session Congress appropriated for the erection of a new family building the sum of \$15,000, and for the erection of a tank-house \$4,500. Plans for these buildings were duly prepared and approved by the Architect of the Capitol, Mr. Edward Clark. They were also approved by the Commissioners of the District, under whose direction the inspector of buildings, Mr. W. B. Entwistle, prepared detailed specifications.

The additional family building thus appropriated for will enable the school to further classify the boys and also accommodate an additional number. The Board hope to have the family building ready for occupancy early next spring.

Estimates for the next fiscal year have been submitted to the Attorney-General for his approval and submission to Congress.

For buildings and grounds:

| | |
|---|---------|
| For construction of greenhouses, with necessary heating apparatus complete. | \$4,500 |
| For construction of one workshop building, with necessary heating apparatus complete | 4,700 |
| For one chapel building of brick and stone, including heating apparatus, gas fixtures, and furniture complete | 7,500 |
| For grading, draining, and permanently improving the school grounds | 1,500 |

The estimates for greenhouses and workshop building are submitted for the first time, the Board believing that both are required in order that the industries can be made of great benefit to the school. The present greenhouses are too small. With the additional houses asked for little increased expenditure will be required for help and for fuel, while a large number of boys can be given an opportunity to become acquainted with this profitable industry and be enabled to pursue it and secure employment thereat after leaving the school. So with the workshop estimated for. It will give us facilities now badly needed, and enable the school to instruct a larger number of boys in various classes of work and at the same time add to the earnings of the institution, which under existing law are now covered into the Treasury and deposited to the credit of the United States and the District of Columbia in equal parts.

The need of an appropriation for a chapel-building and of an appropriation of \$1,500 for grading, draining, and permanently improving the school grounds is again pressed upon the attention of Congress.

As stated in the last annual report of the school, the local government of the District of Columbia has no control whatever over its buildings and grounds, all of which have been paid for out of money appropriated by Congress belonging to the General Government. The District government is represented on the Board by one of its Commissioners as a trustee in the management and maintenance of the school. The current expenses of the institution for several years past have been provided for in the District appropriation bill, one-half being paid by the General Government and one-half by the District of Columbia.

Estimates of appropriations necessary for current expenses have been submitted to the Commissioners of the District as follows:

For one shoemaker, \$1,500; one assistant superintendent, \$900; six teachers and assistant teachers, \$4,000; one matron of school, \$600; three matrons of families at \$180, \$540; one superintendent of chair-shop, \$660; one farmer, \$480; one engineer, \$396; one florist, \$240; one shoemaker, one baker, one tailor, and one cook, each \$300, \$1,200; one seamstress, one chambermaid, one laundress, and two dining-room serv-

ants, each \$144, \$720; watchmen, not to exceed five in number, \$1,140; and one secretary and treasurer of the school, \$600; in all, \$12,976.

For support of inmates, including groceries, flour, meats, dry goods, leather and shoes, gas, fuel, furniture, tableware, hardware, machinery, farm implements, seed, fertilizers, books, stationery, medicines and medical attendance, stock, fencing, repairs to buildings, and other necessary items, including compensation not exceeding \$900 for additional labor or services, all in the discretion of the commissioners, \$25,000.

The estimate for pay-roll is \$1,360 beyond the amount appropriated for the current fiscal year, as follows: Increase of teachers, \$1,000; for one additional matron of family, \$180; and for one additional watchman, \$180. The completion of the new family building during the current fiscal year will enable the school, as already stated, to better classify the boys and also accommodate an additional number. It is for this building that the additional force will be required. If permission were given to pay out of the earnings of the school the wages of the foremen of the several industries, a reduction could be made of \$660 for the superintendent of the chair-shop and of \$240 for the florist; \$900 in all.

No addition has been made in the estimate for subsistence and supplies, it being the purpose of the Board if possible to keep the expenditure on that account within the sum of \$25,000, notwithstanding the increase in the population of the school.

The board have for several years in their annual report asked that they be given power in their discretion to give a leave of absence to the boys instead of an absolute discharge. This request is again pressed upon the attention of Congress, inasmuch as it will enable the authorities of the school to keep a partial control over the boys discharged, who will be required at stated times to report to them. This plan has worked well elsewhere, and experience has demonstrated the need of it here.

The joint resolution which has passed the Senate and is now before the House, making the chief clerk of the Department of Justice *ex-officio* a trustee of the school, it is hoped will become a law. The Board of Trustees cordially appreciate the interest taken by that Department in the welfare of the institution. This will enable its officers to become more intimately acquainted with the workings of the school in all its details, a result that will be very gratifying to the Board.

The school has been free from any fatal sickness or accident during the year. The report of the physician of the school, Dr. Charles A. Wells, is herewith transmitted.

In closing this report I cannot refrain from acknowledging the fidelity and ability of the superintendent of the school, Col. George A. Shallenberger, of the matron Mrs. Shallenberger, and of the teachers and assistants in the immediate charge of the boys. The year has passed without change among the employés at the school, all of whom are heartily interested in the welfare of the boys, and have labored night and day to that end.

I have the honor to be, very respectfully, &c.,

H. W. WILLARD,
President Board of Trustees.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

440 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

REPORT OF THE SUPERINTENDENT.

REFORM SCHOOL OF THE DISTRICT OF COLUMBIA, October 11, 1886.

GENTLEMEN: I have the honor to present my report for the fiscal year ending June 30, 1886, as follows:

| | |
|---|------------|
| Total number of boys received since opening | 1,185 |
| Total number of deaths since opening | 7 |
| Rate of mortality about one-third of one per cent. | |
| Average age of boys received since opening | 13 |
| Age of youngest boy when received | 6 |
| Number of boys in institution June 30, 1885 | 149 |
| Received during the year as follows: | |
| From the supreme and circuit courts | 8 |
| From the police court | 76 |
| From the president of the board | 22 |
| From voluntary return to the school | 1 |
| | 107 |
| Total population during the year | 256 |
| Number received on first commitment | 93 |
| Number received on second commitment | 12 |
| Number received on third commitment | 2 |
| | 107 |
| Age of oldest boy received during the year | 18 |
| Age of youngest boy received during the year | 9 |
| Average age of boys received during the year | 12.7 |
| Maximum number during the year | 178 |
| Minimum number during the year | 145 |
| Average number during the year | 165 |
| Number of boys discharged during the year, viz: | |
| By order of the board of trustees | 73 |
| By order of the United States marshal | 1 |
| By escapes, still absent | 5 |
| | 79 |
| Number remaining June 30, 1886 | 168 |
| Shortest time in which a boy can gain his "honor" | 18 months. |
| Nativity of boys received during the year, viz: | |
| American | 91 |
| Irish | 7 |
| German | 4 |
| English | 4 |
| Scotch | 1 |
| | 107 |
| Parental relations of boys received during the year, viz: | |
| Number having both parents living | 26 |
| Number having lost father by death | 41 |
| Number having lost mother by death | 17 |
| Number having lost both parents by death | 9 |
| Number having parents living in separation | 14 |
| Number having step-father | 20 |
| Number having step-mother | 7 |
| Cause of commitment, viz: | |
| Incorrigibility | 53 |
| Larceny | 39 |
| Vagrancy | 9 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 441

| | |
|----------------------------------|-----------|
| Disorderly assembly | 1 |
| Malicious trespass | 2 |
| Counterfeiting | 1 |
| Robbing United States mail | 2 |
| | <hr/> 107 |

Religious training of boys before commitment, viz:

| | |
|---|-----------|
| Parents attend Baptist church service | 39 |
| Parents attend Catholic church service | 18 |
| Parents attend Episcopal church service | 4 |
| Parents attend Methodist church service | 32 |
| Parents attend Presbyterian church service | 2 |
| Parents attend Christian church service | 2 |
| Parents who did not attend any church service | 10 |
| | <hr/> 107 |

Educational acquirements, when received, viz:

| | |
|---|-----------|
| Number who did not know the alphabet | 9 |
| Number who knew the alphabet only | 10 |
| Number who could spell easy words | 13 |
| Number who could read primary lessons | 36 |
| Number who could read well | 39 |
| | <hr/> 107 |

| | |
|--|-----------|
| Number who could not write | 32 |
| Number who could write imperfectly | 36 |
| Number who could write legibly | 18 |
| Number who could write well | 21 |
| | <hr/> 107 |

| | |
|--|-----------|
| Number who had never studied arithmetic | 66 |
| Number who had been advanced to multiplication | 17 |
| Number who had been advanced to division | 14 |
| Number who had advanced to fractions | 10 |
| | <hr/> 107 |

The superintendent has received from various sources, and turned the same over to Samuel W. Curriden, treasurer of the school, the sum of \$3,311.67, as follows:

| | |
|---|----------------|
| Received from chair-shop account | \$1,657 97 |
| Received from sale of farm products | 446 05 |
| Received from sale of fruits | 284 69 |
| Received from miscellaneous sources | 922 96 |
| | <hr/> 3,311 67 |

All receipts from farm and school are now covered into the United States Treasury for the benefit of the United States and the District of Columbia jointly.

The school sessions have been held regularly in each family during the fall and winter months. The ordinary branches of a common-school education have been taught and the average advancement in study has been maintained. A large percentage of the boys admitted during the year has been below the average in age, estimating for the past ten years. Many of them seem to have been deprived of ordinary school privileges at home, or had failed to take advantage of these, as they came to us with a knowledge of little else than the alphabet.

It is not to be expected that boys of this class will make rapid advancement in their studies. There is one important consideration, however, which in the end must inure to their individual advantage, as it

places them in a position where they are required, for a given time, at least, to attend the school sessions.

There have been 79 boys in all discharged during the year. A very few of these were returned to their homes by authority of the Board of Trustees before their time had fully expired. A large majority of them, however, remained to secure their "honor" badge, and were discharged regularly under the rules. Many inquiries come to us, from official as well as individual sources, for information concerning our discharged boys. How many have really been reformed? is often the very direct question; and what proportion of them succeed in getting employment? The answer to these very reasonable inquiries cannot readily be given in figures, and it is impossible to follow up and locate each individual boy. On another page of this report it is shown that 107 boys were received during the year. Of this number, 11 had been inmates of the school before. It must be remembered, however, that nearly 1,200 boys in all have been received into the school, and that most of them have been discharged and are still living within the District. Those who make a bad record naturally drift into prominence, and as law-breakers are arraigned before the courts, where they become "known and read of all men." Not so, however, with a large proportionate number, who are seldom heard from, because they are doing well, and are living quietly and peaceably in the community to which they have been returned. From among these we could select and name them by scores, boys who having grown to manhood, are now occupying positions of trust and responsibility, and are respected by all who know them.

All of the various school industries have been prosecuted with satisfactory results, but the farm must always take front rank as our most important work-shop. For this reason it has received perhaps more than its share of attention during the year. The season has been a favorable one for growth, and with the exception of white potatoes the yield in all field and vegetable crops has been above the average. The hay crop has been larger than ever before. Fertilizing agents, principally stable manures, have been freely used, and the grounds thus treated have been correspondingly enhanced in value. We have much to contend with on account of the rolling character of portions of our cultivated grounds. These hillsides are subject to heavy washes during the spring and summer freshets, and often from these causes a very promising crop is badly damaged. This trouble can be avoided only by a thorough under-drainage, and for this purpose, in connection with similar improvement of front grounds, a reasonable appropriation has been asked for.

The fruit crop was very light, almost a failure in peaches, pears, and grapes. Of small fruits there was less than an average yield, except strawberries, which were very abundant, affording a large surplus to be disposed of on the market.

Work in the chair-caning department still furnishes light employment for most of our smaller boys. The older and stronger ones take care of the farm and outdoor work generally.

The tailoring and shoe shops, as also the green-houses, are under the management of competent instructors, wherein a number of boys are employed and taught a knowledge of these several trades. So also the bakery, kitchen, and laundry afford like opportunities for other boys to prepare themselves to earn a living by securing a fair knowledge of the work peculiar to each. None are idle during working hours if physically able to be on duty. Hours for recreation are also made a part of the daily programme. The play-ground is considered an essen-

tial feature in the daily routine of school life, as the exercise it brings is helpful alike to health and discipline.

A great deal of work has been done during the year to keep the several buildings in good repair. The tin roofing has been made new wherever required, and all thoroughly covered with patent elastic paint. The boys' basements in both main and family buildings, and also the principal room in laundry, have all been concreted and finished with a granolithic or cement pavement.

A new tubular boiler, with all necessary attachments, including three large jacketed kettles, fitted for steam-cooking, have been provided, and are now in successful operation, for preparing food for the boys' table. A new range, with extended facilities for supplying hot water throughout the building, has been added to other necessary kitchen improvements.

Machinery of the latest designs and most approved patterns has been purchased and put in position for the manufacture of paper boxes. It is the intention to secure a competent foreman to instruct and educate a number of boys in this growing industry, believing that it promises something practical in the way of remunerative employment for them after they have been discharged from the school.

Several knitting-machines have also been purchased and placed in the tailoring department, especially designed for knitting our own supply of socks, but for a possible extension of this industry should its further development become practicable.

An additional root-cellar has been built, and specially fitted for the winter storage of sweet potatoes by the introduction of artificial heat. One hundred panels of picket fencing have also been constructed along the south line of the farm; many old, unsightly trees removed, and the main roadway to rear of farm thoroughly drained and repaired.

An orchard, containing about 600 young peach trees, has been planted, 100 each of six choice varieties, and also 100 two-year old vines of the new White Niagara grape. These vines were procured direct from the vineyard of the original grower of the now justly popular variety of grapes.

The general health of the school has been very good. Dr. Charles A. Wells, the attending physician, has continued his visits throughout the year as his services have been required. No epidemic has appeared among the children, and no one has suffered from a serious accident of any kind. There has been no death in the institution during the past three years. Under the direction of Dr. Wells a strict sanitary regimen has been carried out, especially during the hot summer months, and free use has been made of the most approved disinfectants, both in and out side of the several buildings.

Quite a number of strangers from different parts of the country, as also many of our old-time friends and neighbors, have visited the school during the year. Through the good-will and favor of such friends, and their knowledge of our wants, we have received frequent donations of interesting reading matter, such as magazines, pamphlets, and weekly newspapers. Periodicals of this class, selected with care, make very acceptable reading for boys, and we accept them with great pleasure, not regarding the *date* as of any material consequence. Daily newspapers are not distributed in the school, and should not be sent to boys or brought to them by their friends.

All of the national holidays were observed in their regular order. The Fourth of July, especially, was made the occasion for a full round of amusements for the boys, culminating, before dark, in a vocal concert on the front lawn, under the direction of Mr. W. K. Cohen, and closing, an hour later, with a fine display of fireworks.

Thangsgiving turkeys were provided in abundance, and enjoyed by the entire school on the day specially designated. Christmas, also, had its usual merry welcome from the boys, old and young, and each was provided with the means to make it a very enjoyable day.

Our annual entertainment was given at the school, by the boys, on the evening of January 25, and consisted of recitations, dialogues, calisthenic exercises, and vocal music, the latter under the direction of Mr. W. K. Cohen, who has charge of this special branch of instruction. The material for these entertainments is drawn wholly from the more advanced classes in the school grades, and boys are selected for their respective parts after a fair competition among themselves. On these occasions our limited accommodations for room are always overtaxed, as, in addition to the Board of Trustees, who are always present, with their friends, our neighbors, ever welcome, all come to join us in an hour or two of solid enjoyment.

Religious services are held every Sabbath afternoon, in the large school-room in south wing of main building. They are conducted by ministers of the different religious denominations, from the city and immediate neighborhood, and by intelligent laymen, accustomed to public speaking. These services are in no sense denominational or sectarian in character. The hour for commencement is 3 o'clock p. m., and all friends of the school are cordially invited to be present.

Our thanks are hereby extended to ministers of the Gospel, and others, who have so regularly and acceptably throughout the year conducted our Sabbath afternoon services. We are also very grateful to the many good friends, ladies and gentlemen, from the city, who have, upon several occasions, and in the interest of our boys, voluntarily given us such charming literary and musical entertainments.

But few changes in our official force have been made during the year. A large majority of our associate officers and employés have proved themselves faithful and efficient in the line of their special duties, and also in the ready assistance extended to the Superintendent and Matron in their daily routine of work and responsibility.

Under Providence, the school has been permitted to close another busy and prosperous year, and I beg to express my gratitude for the continued support of your honorable Board, personally and officially.

Respectfully submitted,

G. A. SHALLENBERGER,

Superintendent.

The BOARD OF TRUSTEES.

REPORT OF THE TREASURER.

REFORM SCHOOL OF THE DISTRICT OF COLUMBIA.

BLADENSBURG PIKE.

Washington, October 9, 1886.

GENTLEMEN: I have the honor to submit herewith my report as Treasurer of the Reform School, for the fiscal year ended June 30 last:

| | | |
|--|-------------|--------|
| Received from appropriation for salaries and subsistence | \$36,616 00 | |
| Expended as per statement of disbursements appended..... | 36,465 63 | |
| Leaving a balance of | | 150 37 |
| Received from appropriation for buildings and grounds..... | \$1,800 00 | |
| Expended as per statement of disbursements appended..... | 1,607 42 | |
| Leaving a balance of..... | | 192 58 |
| Total amount unexpended..... | | 342 95 |

I have also received from the Superintendent of the school during the year, \$3,311.67. In accordance with the act of Congress approved February 25, 1885, I have paid the same into the Treasury of the United States, to the credit of the United States and the District of Columbia, in equal parts.

Very respectfully and truly, yours,

SAML. W. CURRIDEN,
Treasurer.

The BOARD OF TRUSTEES.

Statement of disbursements, current expenses of the Reform School of the District of Columbia, during the fiscal year ended June 30, 1886.

1885.

| | | |
|-------|--|----------|
| July. | G. A. Shallenberger, superintendent, pay-roll, July | \$913 50 |
| | John Brown, compensation, July | 14 00 |
| | Louisa Johnson, compensation, July | 7 00 |
| | Peter Crome, compensation, July | 30 00 |
| | G. A. Shallenberger, superintendent, sundries, July | 16 60 |
| Aug. | Independent Ice Company, ice | 27 14 |
| | Wm. R. Riley, dry goods | 7 78 |
| | G. N. Holland, lime | 6 00 |
| | Tschiffely & Evans, medicine | 14 00 |
| | Browning & Middleton, groceries | 187 86 |
| | Hume, Cleary & Co, groceries | 108 46 |
| | K. Kneessi & Son, harness repair | 5 25 |
| | M. W. Beveridge, kitchen ware | 5 60 |
| | H. Adler, agent, dry goods | 5 19 |
| | Washington Gas-Light Company, gas, July | 22 35 |
| | J. T. Walker's Sons, cement | 3 75 |
| | R. Leitch & Sons, pipe, &c | 55 85 |
| | T. B. Cross, jr., lumber | 16 74 |
| | Eiseman Bros., clothing | 20 00 |
| | G. F. Swift & Co., meat | 211 43 |
| | F. P. May & Co., hardware | 15 38 |
| | G. M. Oyster & Co., butter | 68 14 |
| | Woodward & Lothrop, dry goods | 51 59 |
| | Wm. M. Galt & Co., flour, &c | 62 90 |
| | A. Saks & Co., clothing | 32 38 |
| Sept. | G. A. Shallenberger, superintendent, pay-roll for August | 912 50 |
| | Peter Crome, compensation, August | 30 00 |
| | Louisa Johnson, compensation, August | 7 50 |
| | Olcott & Co., carriage hire | 16 00 |
| | Leon & Saloman, 1 cow | 70 00 |
| | L. H. Schneider & Son, hardware | 21 92 |
| | Hume, Cleary & Co., groceries | 124 42 |
| | Browning & Middleton, groceries | 60 98 |
| | Tschiffely & Evans, medicine | 21 26 |
| | George Ryneal, jr., paint | 29 75 |
| | Wm. M. Galt & Co., flour, &c | 240 02 |
| | Washington Gas-Light Company, gas, for August | 25 80 |
| | George Watts, table-ware | 11 16 |
| | Chas. F. Hale, rose plants | 18 00 |
| | N. Anderson, carpentering | 127 62 |
| | Thos. W. Smith, lumber | 44 54 |
| | Gibson Bros., printing | 2 50 |
| | E. F. Swift & Co., meat | 146 63 |
| | O'Neill Bros., shoes | 5 25 |
| | Willett & Libbey, lumber | 49 00 |
| | W. L. King & Bro., sundries | 5 34 |
| | C. H. Garden & Co., hats | 18 75 |
| | Thos. Somerville & Sons, pipe | 18 94 |
| | J. B. Bryan & Bro., groceries | 23 74 |
| | Geo. M. Oyster & Co., butter | 73 94 |
| | A. Saks & Co., clothing | 5 43 |
| | Wm. Ballantyne & Son, books | 8 24 |

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1885.

| | | |
|-------|--|----------|
| Sept. | F. P. May & Co., hardware | \$13 63 |
| | H. Adler, agent, sundries | 6 15 |
| | Wm. R. Riley, dry goods | 7 65 |
| | Eiseman Bros., clothing | 9 00 |
| | C. A. Wells, medical services | 98 00 |
| | Independent Ice Company, ice | 40 66 |
| | T. B. Cross, jr., lumber | 49 42 |
| | J. P. Agnew & Co., coal | 63 00 |
| | Woodward & Lothrop, dry goods | 170 02 |
| | G. A. Shallenberger, superintendent, sundries, August | 13 88 |
| | Louisa Johnson, compensation, September | 7 50 |
| | Peter Crome, compensation, September | 30 00 |
| Oct. | G. A. Shallenberger, superintendent, pay-roll, September | 928 00 |
| | S. W. Curriden, services | 150 00 |
| | G. A. Shallenberger, superintendent, sundries, September | 13 09 |
| | Thos. J. Carper, farm stock | 50 00 |
| | W. B. Williams, mattresses | 59 00 |
| | H. Adler, agent, sundries | 16 67 |
| | G. F. Swift & Co., meat | 94 68 |
| | Wm. R. Riley, dry goods | 111 80 |
| | F. P. May & Co., hardware | 11 16 |
| | Tschiffely & Evans, medicine | 12 35 |
| | Columbia Railway Company, manure | 87 36 |
| | J. T. Walker's Sons, cement | 3 75 |
| | Eiseman Bros., clothing | 25 90 |
| | John Dixon, painting | 22 00 |
| | N. Anderson, carpentering | 82 50 |
| | The Evening Star, advertising | 10 63 |
| | The National Republican, advertising | 11 50 |
| | Joseph Clemens, paving | 61 50 |
| | T. B. Cross, jr., lumber | 41 54 |
| | T. W. Smith, lumber | 10 22 |
| | Daniel Hannan, water-cocks | 4 00 |
| | William Ballantyne & Son, stationery | 11 11 |
| | Thomas Somerville & Sons, pipe | 17 63 |
| | G. N. Holland, lime | 14 50 |
| | M. W. Beveridge, table ware | 7 09 |
| | J. M. Lauxman, blacksmithing | 23 85 |
| | Washington Brick Machine Company, manure | 90 40 |
| | Washington Brick Machine Company, bricks | 76 00 |
| | J. T. Varnell & Son, beef | 33 72 |
| | C. F. Hale, plants | 26 00 |
| | George Ryneal, jr., glass, &c. | 32 00 |
| | Independent Ice Company, ice | 34 20 |
| | G. M. Oyster & Co., butter | 82 61 |
| | W. B. Moses & Son, carpet | 36 10 |
| | R. Cohen, shoes | 89 00 |
| | Washington Gas-Light Company, gas | 38 25 |
| | Woodward & Lothrop, dry goods | 48 66 |
| | W. M. Galt & Co., flour, &c. | 199 00 |
| | William H. Ernest, flower pots | 3 75 |
| | Bex & Hennesch, wagon repairs | 49 00 |
| | Browning & Middleton, groceries | 116 41 |
| | Hume, Cleary & Co., groceries | 154 10 |
| | John A. Baker, seed tools, &c. | 57 84 |
| | R. Leitch & Sons, pipe | 14 07 |
| Nov. | G. A. Shallenberger, superintendent, pay-roll, October | 908 00 |
| | Peter Crome, compensation, October | 30 00 |
| | Louisa Johnson, compensation, October | 9 00 |
| | Philip Nicholas, compensation, October | 20 00 |
| | G. A. Shallenberger, superintendent, sundries | 9 75 |
| | Tschiffely & Evans, medicine | 7 77 |
| | John P. Agnew & Co., coal | 1,261 76 |
| | George Watts & Son, houseware | 9 55 |
| | Independent Ice Company, ice | 26 60 |
| | William M. Galt & Co., flour, &c. | 208 25 |
| | Olcott & Co., carriage hire | 8 00 |
| | W. L. King & Co., tools, &c. | 5 70 |
| | N. White & Co., oysters | 15 75 |

1885.

| | | |
|------|---|---------|
| Nov. | C. A. Wells, medical services | \$00 00 |
| | G. F. Swift & Co., meat | 142 02 |
| | C. W. Thorn & Co., dry goods | 6 57 |
| | J. D. Free, jr., stationery | 33 51 |
| | George J. Muller, sundries | 12 20 |
| | George M. Oyster & Co., butter | 89 18 |
| | William R. Riley, dry goods | 21 79 |
| | H. Adler, agent, dry goods | 27 44 |
| | Hume, Cleary & Co., groceries | 114 98 |
| | Browning & Middleton, groceries | 174 40 |
| | Castle & Henshaw, tinning | 22 25 |
| | George M. Barker, sash | 16 80 |
| | E. N. Gray & Co., grates | 54 25 |
| | N. Anderson, carpentering | 70 20 |
| | L. H. Schneider & Son, hardware | 5 07 |
| | Daniel Hannan, valves | 6 00 |
| | Washington Gas Light Company, gas | 58 05 |
| | Johnson Bros., coal | 644 10 |
| Dec. | G. A. Shallenberger, superintendent, pay-roll, November | 920 50 |
| | G. A. Shallenberger, superintendent, sundries | 31 18 |
| | Louisa Johnson, compensation, November | 7 50 |
| | Wm. M. Galt & Co., flour, &c. | 208 25 |
| | G. F. Swift & Co., meat | 153 56 |
| | Browning & Middleton, groceries | 123 23 |
| | Hume, Cleary & Co., groceries | 173 26 |
| | Spicer, Compton & Co., butter | 28 34 |
| | Geo. M. Oyster & Co., butter | 57 32 |
| | N. White & Co., oysters | 10 50 |
| | Independent Ice Company, ice | 19 00 |
| | Tschiffely & Evans, medicine | 17 75 |
| | J. P. Agnew & Co., coal | 108 50 |
| | Washington Gas-Light Company, gas | 84 15 |
| | R. Cohen, shoes | 49 45 |
| | Geo. Watts & Son, house ware, &c. | 9 90 |
| | Wm. R. Riley, dry goods | 218 06 |
| | Woodward & Lothrop, dry goods | 53 87 |
| | C. W. Thorn & Co., sundries | 13 10 |
| | H. Adler, agent, sundries | 34 12 |
| | Eiseman Bros., clothing | 36 50 |
| | Saks & Co., clothing | 13 70 |
| | L. Schmidt & Sons, sundries | 9 25 |
| | B. P. Murray, entertainment | 10 00 |
| | Olcott & Co., carriage hire | 5 50 |
| | Geo. Ryneal, jr., oil | 9 78 |
| | Geo. N. Holland, lime | 9 00 |
| | M. W. Beveridge, table ware, &c. | 47 99 |
| | F. P. May & Co., hardware | 19 74 |
| | Wm. Ballantyne & Son, stationery | 6 13 |
| | T. B. Cross, jr., lumber | 23 47 |

1886.

| | | |
|------|---|--------|
| Jan. | Wheatley Bros., lumber | 17 50 |
| | G. A. Shallenberger, superintendent, pay-roll, December | 923 00 |
| | Andrew Barbour, repairing furnace | 15 75 |
| | J. L. Mott, iron works, repairs in laundry | 22 91 |
| | G. A. Shallenberger, superintendent, sundry expenses | 15 22 |
| | Philip Nicholas, compensation, December | 22 50 |
| | Louisa Johnson, compensation, December | 7 50 |
| | Wm. M. Galt & Co., flour | 211 15 |
| | G. E. Swift & Co., meat | 119 07 |
| | N. White & Co., oysters | 15 37 |
| | Hume, Cleary & Co., groceries | 157 26 |
| | Browning & Middleton, groceries | 212 35 |
| | Geo. M. Oyster & Co., butter | 32 58 |
| | Spicer, Compton & Co., butter | 65 34 |
| | C. Denekas, yeast | 20 77 |
| | Washington Gas Light Company, gas, December | 98 40 |
| | Washington Brick Machine Company, manure | 91 40 |
| | Columbia Railway Company, manure | 95 16 |

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1886.

| | | |
|------|---|---------|
| Jan. | Woodward & Lothrop, dry goods..... | \$22 00 |
| | H. Adler, agent, dry goods..... | 46 64 |
| | Eiseman Bros., clothing..... | 8 50 |
| | Saks & Co., clothing..... | 8 30 |
| | O'Neill Bros., shoes..... | 8 88 |
| | L. H. Schneider & Son, hardware..... | 19 62 |
| | K. Kneessi & Son, harness, &c..... | 5 50 |
| | W. L. King & Bro., leather, &c..... | 70 12 |
| | J. W. Lauxman, blacksmithing..... | 16 35 |
| | Geo. Watts, houseware..... | 18 59 |
| | R. Leitch & Son, pipe..... | 16 13 |
| | Simpson & Guy, tinware, &c..... | 9 65 |
| | T. C. Basshor & Co., repairs..... | 22 50 |
| | Lewis Baar, agent, sundries..... | 5 56 |
| | C. W. Thorn & Co., sundries..... | 12 38 |
| | John A. Baker & Co., seed..... | 11 60 |
| | Wm. Ballantyne & Son, books, &c..... | 62 96 |
| | C. W. Brown, printing..... | 8 00 |
| | G. N. Holland, lanterns, &c..... | 3 50 |
| | Olcott & Co., carriage hire..... | 8 00 |
| | S. W. Curriden, services..... | 150 00 |
| | C. A. Wells, medical services..... | 42 00 |
| | Geo. J. Mueller, sundries..... | 17 99 |
| | Independent Ice Company, ice..... | 19 00 |
| | Auerbach Bros., hats..... | 13 66 |
| | C. E. Park, agent, trees and vines..... | 172 00 |
| | J. L. Mott, iron work..... | 13 70 |
| | Geo. Ryneal, jr., glass, oil, &c..... | 18 67 |
| Feb. | G. A. Shallenberger, superintendent, pay-roll, January..... | 915 50 |
| | Philip Nicholas, compensation, January..... | 25 00 |
| | Louisa Johnson, compensation, January..... | 7 50 |
| | G. A. Shallenberger, superintendent, sundries, January..... | 23 50 |
| | L. Moxley, clothing..... | 7 50 |
| | Samuel Clark, compensation..... | 2 00 |
| | Hume, Cleary & Co., groceries..... | 154 86 |
| | Browning & Middleton, groceries..... | 113 60 |
| | Wm. M. Galt & Co., flour..... | 221 95 |
| | J. T. Varnell & Son, meat..... | 142 93 |
| | G. F. Swift & Co., meat..... | 25 23 |
| | N. White & Co., oysters..... | 10 50 |
| | Geo. M. Oyster & Co., butter..... | 105 54 |
| | Tschiffely & Evans, medicine..... | 12 65 |
| | Wm. R. Riley, dry goods..... | 59 87 |
| | Woodward & Lothrop, dry goods..... | 49 04 |
| | H. Adler, agent, dry goods..... | 21 62 |
| | C. H. Garden & Co., hats..... | 68 38 |
| | R. Cohen, shoes..... | 46 00 |
| | Eiseman Bros., clothing..... | 31 50 |
| | H. Wolf & Son, shoes..... | 5 00 |
| | Washington Gas Light Company, gas..... | 111 45 |
| | M. W. Beveridge, houseware..... | 13 94 |
| | Chas. L. Beebe, baskets..... | 14 00 |
| | Wm. Ballantyne & Son, books..... | 18 58 |
| | C. W. Brown, painting..... | 15 75 |
| | J. B. Adams, dumb-bells..... | 6 50 |
| | W. B. Williams, furniture, &c..... | 53 90 |
| | Geo. Ryneal, jr., oil, &c..... | 6 05 |
| | Geo. N. Holland, brooms, &c..... | 7 63 |
| | Thos. Somerville & Sons, boiler grate..... | 29 35 |
| | W. E. Wood & Co., iron bars..... | 9 00 |
| | T. W. Smith, lumber..... | 11 90 |
| | J. B. Olcott & Co., carriage hire..... | 25 00 |
| Mar. | G. A. Shallenberger, superintendent, pay-roll, February..... | 916 00 |
| | Philip Nicholas, compensation, February..... | 25 00 |
| | Louisa Johnson, compensation, February..... | 7 50 |
| | G. A. Shallenberger, superintendent, railroad fares for boys..... | 36 70 |
| | Wm. M. Galt & Co., flour, &c..... | 208 95 |
| | Browning & Middleton, groceries..... | 146 52 |
| | Hume, Cleary & Co., groceries..... | 132 31 |

1886.

| | | |
|-------|--|----------|
| Mar. | J. T. Varnell & Sons, meat | \$189 51 |
| | Wm. H. Hoover, mutton | 23 35 |
| | N. White & Co., oysters | 10 50 |
| | Geo. M. Oyster & Co., butter | 61 93 |
| | Tschiffely & Evans, medicine | 12 32 |
| | J. P. Agnew & Co., coal | 78 00 |
| | The Washington Gas Light Company, gas, February | 76 95 |
| | Wm. R. Riley, dry goods | 188 39 |
| | Woodward & Lothrop, dry goods | 46 43 |
| | H. Adler, agent, dry goods | 6 94 |
| | Pitkin & Thomas, clothing | 74 40 |
| | Eiseman Bros., clothing | 43 50 |
| | R. Cohen, shoes | 62 70 |
| | J. D. Free, jr., books, &c. | 41 34 |
| | W. B. Moses & Son, furniture, &c. | 67 85 |
| | M. W. Beveridge, houseware | 27 79 |
| | F. P. May & Co., hardware | 6 60 |
| | Saml. S. Shedd, glass globes | 3 15 |
| | Wm. E. Wood & Co., grates, &c. | 37 13 |
| | Thos. Somerville & Sons, wire needles | 4 65 |
| | Buehler, Bonbright & Co., steel wire | 6 25 |
| | Geo. W. Knox, conveyance | 10 00 |
| | J. M. Lanxman, blacksmithing | 30 25 |
| | Geo. Ryneal, jr., paint, &c. | 7 80 |
| | Washington Brick Machine Company, manure | 61 20 |
| | Olcott & Co., carriage hire | 4 00 |
| April | G. A. Shallenberger, superintendent, sundries | 8 10 |
| | G. A. Shallenberger, superintendent, pay-roll, March | 918 00 |
| | Philip Nicholas, compensation, March | 25 00 |
| | Louisa Johnson, compensation, March | 7 50 |
| | J. B. Slack, one horse | 125 00 |
| | G. A. Shallenberger, superintendent, sundries, March | 11 09 |
| | Wm. M. Galt & Co., flour | 203 95 |
| | Browning & Middleton, groceries | 190 63 |
| | Hume, Cleary & Co., groceries | 138 65 |
| | G. M. Oyster & Co., butter | 62 48 |
| | Wm. R. Riley, dry goods | 68 31 |
| | Woodward & Lothrop, dry goods | 27 47 |
| | H. Adler, agent sundries | 35 23 |
| | Eiseman Bros., clothing | 21 00 |
| | Chas. A. Wells, medical services | 72 00 |
| | Tschiffely & Evans, medicines | 21 28 |
| | Wm. Ballantyne & Son, stationery | 5 32 |
| | J. D. Free, jr., books, &c. | 18 21 |
| | E. Morrison, stationery, &c. | 9 51 |
| | Washington Gas Light Company, gas | 77 10 |
| | Peter Henderson & Co., seed, &c. | 34 85 |
| | K. Kneessi & Son, harness, &c. | 28 15 |
| | R. Cohen, shoes | 53 20 |
| | W. L. King & Bro., supplies | 21 34 |
| | Geo. Ryneal, jr., paints, &c. | 4 01 |
| | Geo. N. Holland, lime | 5 00 |
| | M. W. Beveridge, houseware | 5 05 |
| | Geo. Watts, houseware | 11 90 |
| | L. H. Schneider & Sons, hardware | 3 00 |
| | Thos. Somerville & Co., chair-needles | 3 75 |
| | W. B. Williams, furniture | 37 00 |
| | Olcott & Co., carriage hire | 8 00 |
| | Daniel Hannan, pipe | 3 00 |
| | C. H. Garden & Co., caps | 17 28 |
| | Columbia Railway Company, manure | 93 60 |
| | S. W. Curriden, services | 150 00 |
| | Samuel Clark, compensation, March | 10 50 |
| | G. F. Swift & Co., meat | 157 83 |
| | John A. Baker, seed | 8 33 |
| | Wm. H. Ernest, flower pots | 5 00 |
| | C. F. Hale, jr., plants | 5 25 |
| | F. P. May & Co., hardware | 4 35 |
| | J. P. Agnew & Co., coal | 26 00 |

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1886.

| | | |
|-------|---|----------|
| May. | G. A. Shallenberger, superintendent, pay roll, April..... | \$913 00 |
| | Philip Nicholas, compensation, April..... | 25 00 |
| | Samuel Clark, compensation, April..... | 14 00 |
| | Louisa Johnson, compensation, April..... | 7 00 |
| | Wm. M. Galt & Co., flour..... | 203 95 |
| | G. F. Swift & Co., meat..... | 145 47 |
| | R. A. Golden, fish..... | 20 60 |
| | Hume, Cleary & Co., groceries..... | 136 27 |
| | Browning & Middleton, groceries..... | 149 71 |
| | G. M. Oyster & Co., butter..... | 107 52 |
| | Tschiffely & Evans, medicine..... | 6 65 |
| | J. P. Agnew & Co., coal..... | 62 40 |
| | Washington Gas Light Co., gas..... | 55 80 |
| | Woodward & Lothrop, dry goods..... | 24 01 |
| | Wm. R. Riley, dry goods..... | 42 97 |
| | Hood, Bonbright & Co., dry goods..... | 83 49 |
| | H. Adler, agent, sundries..... | 36 78 |
| | C. W. Thorn & Co., sundries..... | 9 31 |
| | Eiseman Bros., clothing..... | 15 00 |
| | W. B. Williams, furniture..... | 23 87 |
| | W. L. King & Bro., leather, &c..... | 13 37 |
| | John A. Baker, seed, &c..... | 69 75 |
| | Wm. H. Ernest, flower-pots..... | 5 10 |
| | Geo. N. Holland, cement, &c..... | 5 50 |
| | Washington Brick Machine Company, manure..... | 60 80 |
| | Wm. Ballantyne & Son, books..... | 15 42 |
| | Geo. Watts, glassware..... | 4 53 |
| | Thos. W. Smith, lumber..... | 16 09 |
| | L. H. Schneider & Son, hardware..... | 25 58 |
| | F. P. May & Co., nails..... | 5 35 |
| | E. N. Gray & Co., repairs to boilers..... | 4 20 |
| | Daniel Hannan, plumbing..... | 49 90 |
| | Olcott & Co., carriage hire..... | 12 00 |
| | J. W. Lauxman, blacksmithing..... | 35 27 |
| | G. A. Shallenberger, superintendent, sundries..... | 20 28 |
| | E. P. Godwin, compensation..... | 8 00 |
| | C. W. Brown, printing..... | 48 80 |
| June. | G. A. Shallenberger, superintendent, pay roll, May..... | 918 00 |
| | Philip Nicholas, compensation, May..... | 25 00 |
| | Samuel Clark, compensation, May..... | 15 00 |
| | Louisa Johnson, compensation, May..... | 7 50 |
| | Henry Beach, compensation, May..... | 5 25 |
| | G. A. Shallenberger, superintendent, sundries, May..... | 14 87 |
| | John Burke, one horse..... | 200 00 |
| | Browning & Middleton, groceries..... | 85 35 |
| | Hume, Cleary & Co., groceries..... | 177 08 |
| | Wm. M. Galt & Co., flour, &c..... | 255 95 |
| | R. Cohen, shoes..... | 18 75 |
| | Tschiffely & Evans, drugs..... | 12 20 |
| | H. Adler, agent, hose, &c..... | 12 16 |
| | W. L. King & Bro., leather, &c..... | 11 56 |
| | Gibson Bros., printing..... | 7 25 |
| | F. P. May & Co., hardware..... | 8 48 |
| | Wm. H. Ernest, pots..... | 6 00 |
| | C. W. Thorn & Co., sundries..... | 6 32 |
| | R. A. Golden, fresh fish..... | 10 25 |
| | Wm. H. Hoeke, carpet..... | 32 97 |
| | C. H. Garden & Co., hats..... | 21 75 |
| | L. H. Schneider & Son, hardware..... | 12 05 |
| | M. W. Beveridge, table ware..... | 15 48 |
| | Hood, Bonbright & Co., cloth..... | 34 04 |
| | Eiseman Bros., clothing..... | 48 50 |
| | Geo. M. Oyster & Co., butter..... | 86 20 |
| | Wm. R. Riley, dry goods..... | 53 87 |
| | J. M. Lauxman, blacksmithing..... | 12 25 |
| | Louis Baar, agent, sewing-machine, &c..... | 39 56 |
| | Woodward & Lothrop, dry goods..... | 69 22 |
| | W. B. Williams, furniture..... | 250 70 |
| | G. F. Swift & Co., meat..... | 235 28 |

1886.

| | |
|--|---------|
| June. Washington Gas Light Company, gas..... | \$44 40 |
| Geo. Ryneal, jr., glass, &c..... | 15 98 |
| Castle & Henshaw, spouting, &c..... | 9 90 |
| Geo. N. Holland, lime, &c..... | 7 10 |
| Thos. Somerville & Sons, pipe..... | 8 31 |
| G. Y. Hansell, papering..... | 5 00 |
| Wm. K. Boyle, fencing..... | 61 00 |
| J. D. Free, jr., stationary..... | 33 56 |
| G. A. Shallenberger, superintendent, pay roll, June..... | 920 00 |
| Philip Nicholas, compensation, June..... | 25 00 |
| James Warner, compensation, June..... | 13 75 |
| John Isaac, compensation, June..... | 13 75 |
| Stanley Taylor, compensation, June..... | 13 75 |
| Daniel Gantt, compensation, June..... | 13 75 |
| William Chase, compensation, June..... | 13 50 |
| Louisa Johnson, compensation, June..... | 7 50 |
| G. A. Shallenberger, superintendent, sundries, June..... | 17 14 |
| C. A. Wells, medical services..... | 52 00 |
| Wm. Donnelly, dental services..... | 31 50 |
| Wm. M. Galt & Co., flour, &c..... | 208 56 |
| G. F. Swift & Co., meat..... | 308 03 |
| C. Kieny, jr., meat..... | 6 40 |
| R. A. Golden, fresh fish..... | 5 45 |
| Hume, Cleary & Co., groceries..... | 142 89 |
| Browning & Middleton, groceries..... | 199 97 |
| G. M. Oyster & Co., butter..... | 26 91 |
| Independent Ice Company, ice..... | 26 60 |
| Tschiffely & Evans, medicine..... | 9 65 |
| John P. Agnew & Co., coal..... | 32 50 |
| Washington Gas-Light Company, gas..... | 36 90 |
| Saks & Co., clothing, &c..... | 20 00 |
| Eiseman Bros., clothing, &c..... | 21 00 |
| Auerbach & Bros., hats..... | 14 75 |
| C. H. Garden & Co., hats..... | 14 25 |
| Woodward & Lothrop, dry goods..... | 43 27 |
| Wm. R. Riley, dry goods..... | 20 78 |
| H. Adler, agent, dry goods..... | 22 91 |
| R. Cohen, shoes..... | 92 40 |
| W. L. King & Bro., leather, &c..... | 10 08 |
| Washington Brick Machine Company, manure..... | 60 00 |
| Columbia Railway Company, manure..... | 109 20 |
| John A. Baker, tools, seed, &c..... | 75 50 |
| L. H. Schneider's Son, tools, &c..... | 20 75 |
| W. G. Metzgerott & Co., rent of organ..... | 30 00 |
| E. Morrison, stationery..... | 5 77 |
| Wm. Ballantyne & Son, stationery..... | 2 32 |
| M. W. Beveridge, chinaware, &c..... | 39 17 |
| George Watts & Son, chinaware, &c..... | 5 22 |
| K. Kneessi & Son, harness, &c..... | 76 15 |
| O'Neill Bros., blacksmithing..... | 28 87 |
| Henry Wolf, repairing tools..... | 7 72 |
| Olcott & Co., carriage hire..... | 4 00 |
| George N. Holland, lime..... | 5 00 |
| Simpson & Guy, repairing old range..... | 89 25 |
| W. B. Williams, furniture, &c..... | 253 96 |
| Hutchinson Bros., new range..... | 250 00 |
| George Y. Hansell, papering..... | 17 60 |
| James McDermott & Bro., repairing carriage..... | 52 00 |
| R. Leitch & Sons, pipe, &c..... | 10 06 |
| George Ryneal, jr., oil, &c..... | 14 35 |
| H. P. Gilbert, belting..... | 7 60 |
| F. P. May & Co., hardware..... | 3 30 |
| S. W. Curriden, services..... | 150 00 |
| Samuel Clark, compensation, June..... | 14 00 |
| Pitkin & Thomas, clothing, &c..... | 63 30 |
| C. Denekas, yeast..... | 20 22 |
| Bex & Heunsch, repairing wagon..... | 40 00 |
| Edwards & Castle, shoe leather..... | 109 45 |
| T. C. Basshor & Co., boiler and steam kettles..... | 660 00 |

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1886.

| | | |
|-------|--|---------|
| June. | Wheatley Bros., lumber | \$98 70 |
| | J. L. Branson, knitting machines | 114 55 |
| | Charles Beck, paper-box machines | 484 03 |
| | C. W. Lord & Co., fire buckets | 11 00 |
| | A. H. Andrews & Co., school furniture | 245 60 |
| | J. A. Butts, treasurer, iron bedsteads | 353 50 |
| | C. W. Thorn & Co., sundries | 62 14 |
| | Potomac Terra Cotta Company, pipe | 138 00 |

Total disbursements on account of appropriation for current expenses. 36,465 63

Statement of disbursements buildings and grounds account for the fiscal year ended June 30, 1886.

| | | |
|-------------|--|----------|
| 1885. | | \$20 00 |
| July. | Philip Nicholas, labor | 20 00 |
| Aug. | Philip Nicholas | 34 50 |
| Sept. | George E. Hartley, labor | 192 70 |
| Dec. | Bonnuel & Weirick, repairing roof | 12 30 |
| | T. W. Smith, lumber | 80 62 |
| | N. Anderson, repairs | |
| 1886. | | 125 80 |
| | H. L. Cranford, cement floor, laundry | 776 60 |
| Mar. | H. L. Cranford, cement floor, basement | 15 04 |
| | N. Anderson, repairs | 48 75 |
| June. | N. Anderson | 175 00 |
| | Ward & Cunningham, plumbing | 64 61 |
| | T. B. Cross, lumber | 17 50 |
| | John Dixon, painting | 24 00 |
| | N. Anderson, repairs | |
| Total | | 1,607 42 |

REPORT OF THE PHYSICIAN.

REFORM SCHOOL OF THE DISTRICT OF COLUMBIA,

July 1, 1886.

GENTLEMEN: Notwithstanding the crowded condition of the dormitories in Family A building, the health of the school has been fairly good for the past year. Numerous ailments have received my attention, and we have had no really serious illness among the boys, except six cases of typhus fever, occurring last July and August, and a case of peritonitis, through which the patient struggled, after an illness of months. I strenuously urge that ample dormitory space be provided in the proposed new building. Since the date of my last report the damp brick flooring in Family A building and in the boys' basement of main building has been replaced with good concrete work. I earnestly urge that the entire basement of the main building be floored with the same material. I regard this as having an important bearing on the hygienic condition of the building.

Among the potent factors in maintaining the good health of this institution I place the thoroughly cleanly condition in which the buildings are kept. Thorough ventilation is insisted upon, and free use of disinfectants urged at all seasons.

Very respectfully,

CHAS. A. WELLS, M. D.,
Attending Physician.

The BOARD OF TRUSTEES OF THE REFORM SCHOOL, D. C.

Statement of farm products at the Reform School of the District of Columbia for the fiscal year ending June 30, 1886.

| | |
|--------------------------------|----------------------------|
| 900 bushels Irish potatoes. | 50 dozen rhubarb. |
| 125 bushels sweet potatoes. | 125 bushels parsnips. |
| 10 bushels Lima beans. | 10 bushels carrots. |
| 40 bushels string beans. | 2,000 bunches celery. |
| 18 bushels navy beans. | 250 watermelons. |
| 400 dozen sugar corn. | 1,200 cantelope melons. |
| 250 bushels ears corn (field). | 150 bushels rye. |
| 20 bushels peas (in pod). | 60 bushels oats. |
| 50 bushels table beets. | 25 tons hay. |
| 350 bushels rutabaga turnips. | 4,500 gallons milk. |
| 700 bushels mangel-wurtzels. | 450 dozen eggs. |
| 3,000 heads summer cabbage. | 2,000 quarts strawberries. |
| 12 bushels onions. | 300 quarts raspberries. |
| 150 bushels tomatoes. | 250 quarts blackberries. |
| 18 bushels cucumbers. | 100 quarts currants. |
| 5 bushels radishes. | 1,000 pounds grapes. |
| 10 bushels asparagus. | 6 fat hogs. |
| 75 bushels peaches. | 115 pigs. |
| 5 bushels crab apples. | 10 veal calves. |

The above products have been disposed of by consumption in their season as food for boys' and employes' tables, for feeding stock used on the farm, and the surplus sold in the markets and accounted for in my regular quarterly reports, made and forwarded during the year, viz, September 30, December 31, 1885; March 31 and June 30, 1886.

Respectfully submitted.

G. A. SHALLENBERGER,
Superintendent.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

X.—REPORT OF THE MARKET-MASTER.

EASTERN MARKET.

Receipts for the year ending June 30, 1886.

| Class of stands. | Number of stands. | Monthly rent. | Total receipts. |
|--------------------|-------------------|---------------|-----------------|
| Butcher..... | 18 | \$4 50 | \$864 00 |
| Bacon..... | 5 | 4 00 | 240 00 |
| Butter..... | 7 | 4 00 | 288 00 |
| Miscellaneous..... | 8 | 4 00 | 384 00 |
| Fish..... | 3 | 3 00 | 90 00 |
| Huckster..... | 39 | 3 00 | 963 00 |
| Extra gas..... | | | 78 50 |
| Total..... | 80 | | 2,902 50 |

S. D. NEWCOMB.

WASHINGTON, D. C., November 26, 1886.

GEORGETOWN, *November 25, 1886.*

GENTLEMEN: I have the honor to furnish you a detailed statement of the operations of the Georgetown Market for the fiscal year ending June 30, 1886:

| Class of stalls. | Number of stalls. | Monthly rent. | Number rented. |
|------------------------------|-------------------|---------------|----------------|
| Butcher..... | 16.. | 60 | \$2 16 |
| Bacon..... | 4.. | | |
| Bread and butter..... | 12.. | | |
| Huckster..... | 20.. | | |
| Miscellaneous..... | 8.. | | |
| Received for rents..... | | \$1, 188 74 | |
| Sale of fish-stands..... | | 72 00 | |
| Total..... | | | \$1, 260 74 |
| Expenses, market-master..... | | 900 00 | |
| Expenses for gas..... | | 96 00 | |
| Total..... | | | 996 00 |
| Balance..... | | | 264 74 |

I would respectfully state that I have no recommendations to make in regard to the market, from the fact that it is in excellent condition, and the dealers pay their rents promptly.

Very respectfully,

W. H. WILLIAMS,
Market-Master.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

REPORT
OF THE
HEALTH OFFICER
FOR
THE YEAR ENDING JUNE 30, 1886.

OFFICERS OF THE HEALTH DEPARTMENT.

HEALTH OFFICER.

SMITH TOWNSHEND, M. D.

CHIEF CLERK.

J. C. MCGINN.

CLERKS.

B. F. PETERS.
T. W. PARSONS.

M. L. SOTHORON.
W. B. JONES.

SANITARY INSPECTORS.

A. J. HEIRD.
W. A. SHORT.
E. H. HUME.

THOMAS M. SHEPHERD.
B. G. POOL, M. D.
C. H. WELCH.

INSPECTOR OF PLUMBING.

SAMUEL A. ROBINSON.

FOOD INSPECTORS.

T. M. EMBREY.

CALEB SEBASTIAN.*

J. R. MOTHERSHEAD.

INSPECTOR OF MARINE PRODUCTS.

GWYNN HARRIS.

POUNDMASTER.

SAMUEL EINSTEIN.

MESSENGER.

P. H. GOODWIN.

PHYSICIANS TO THE POOR.

R. A. PYLES, M. D.
HENRY DARLING, M. D.
J. H. YARNALL, M. D.
R. A. NEALE, M. D.
L. K. BEATTY, M. D.

B. M. BEALL, M. D.
R. T. HOLDEN, M. D.
A. A. MARSTELLER, M. D.
PETER GOOLRICK, M. D.
EDGAR JANNEY, M. D.

* Detailed from Metropolitan police force.

REPORT OF THE HEALTH OFFICER.

GENTLEMEN: The following pages present statements in detail which exhibit the operations of the health department for the fiscal year ending June 30, 1886.

The introductory summaries of the extensive and comprehensive statistical tables present a most satisfactory showing as regards the death rate of the District for the year. As compared with the year 1885, we find a decrease in the death rate of 2.19 per 1,000 per annum, which means, of course, the lives of 449 of our people. As compared with the mean mortality for eleven years, exhibited in statement C, we find a reduction of 1.42 per 1,000 per annum. This is most gratifying as an evidence of the increased healthfulness of the District, and what is more consoling to us, as guardians of the health of the people, the death rate from the zymotic or preventable class of diseases is reduced from 5.82 to 4.46 per 1,000 per annum; the reductions being, as is shown, a continued cutting down of the rate of mortality from this class of diseases, which stood in 1884 at 6.30 per 1,000 per annum, and ten years ago at 6,066.

These statements (statements A, B, and C) are easily understood, and I believe will demonstrate, together with the others, the value of the labors of this corps of workers, and the intimate relationship they bear to the highest interests of the community.

The tabular statements relative to vital statistics, *in extenso*, will be discussed further on in this report.

STATEMENT A.—Showing deaths by classes arranged according to sex and color, with percentages and annual death rates, for the year ending June 30, 1886.

| Class of diseases. | Deaths. | | | | | | | Percentages to total deaths. | | | | Annual death rate. | | |
|----------------------|---------|-------|----------|-------|--------|----------|--------|------------------------------|--------|----------|--------|--------------------|----------|--------|
| | White. | | Colored. | | White. | Colored. | Total. | White. | | Colored. | | White. | Colored. | Total. |
| | M. | F. | M. | F. | | | | M. | F. | | | | | |
| | | | | | | | | | | | | | | |
| Zymotic | 253 | 228 | 223 | 211 | 481 | 434 | 915 | 19.28 | 20.18 | 20.71 | 18.27 | 3.54 | 6.29 | 4.46 |
| Constitutional | 266 | 281 | 280 | 338 | 597 | 618 | 1,185 | 21.80 | 24.87 | 26.00 | 29.26 | 4.17 | 8.96 | 5.78 |
| Local | 605 | 449 | 414 | 437 | 1,054 | 851 | 1,905 | 46.11 | 39.73 | 38.45 | 37.84 | 7.75 | 12.33 | 9.29 |
| Developmental | 94 | 144 | 96 | 132 | 238 | 228 | 466 | 7.17 | 12.74 | 8.91 | 11.43 | 1.75 | 3.30 | 2.27 |
| Violence | 74 | 28 | 64 | 37 | 102 | 101 | 203 | 5.64 | 2.48 | 5.93 | 3.20 | .75 | 1.46 | .99 |
| Total | 1,312 | 1,130 | 1,077 | 1,155 | 2,442 | 2,232 | 4,674 | 100.00 | 100.00 | 100.00 | 100.00 | 17.96 | 32.35 | 22.80 |

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STATEMENT B.—Showing deaths by classes arranged according to sex and color, with percentages and annual death rate, for the year ending June 30, 1885.

| Class of disease. | Deaths. | | | | | | | Percentages to total deaths. | | | | Annual death-rate. | | |
|----------------------|---------|-------|----------|-------|--------|----------|--------|------------------------------|--------|----------|--------|--------------------|----------|--------|
| | White. | | Colored. | | White. | Colored. | Total. | White. | | Colored. | | White. | Colored. | Total. |
| | M. | F. | M. | F. | | | | M. | F. | M. | F. | | | |
| | | | | | | | | | | | | | | |
| Zymotic | 344 | 314 | 262 | 245 | 658 | 507 | 1,165 | 25.02 | 25.42 | 21.65 | 20.80 | 5.03 | 7.32 | 5.825 |
| Constitutional | 283 | 301 | 278 | 308 | 584 | 586 | 1,170 | 20.58 | 24.37 | 22.98 | 26.15 | 4.46 | 8.46 | 5.85 |
| Local | 567 | 465 | 494 | 442 | 1,032 | 936 | 1,968 | 41.24 | 37.66 | 40.82 | 37.52 | 7.88 | 13.50 | 9.84 |
| Developmental | 116 | 129 | 113 | 157 | 245 | 270 | 515 | 8.43 | 10.44 | 9.34 | 13.32 | 1.87 | 3.89 | 2.575 |
| Violence | 65 | 26 | 63 | 26 | 91 | 89 | 180 | 4.73 | 2.11 | 5.21 | 2.21 | .73 | 1.28 | .90 |
| Total | 1,375 | 1,235 | 1,210 | 1,178 | 2,610 | 2,388 | 4,998 | 100.00 | 100.00 | 100.00 | 100.00 | 19.97 | 34.45 | 24.99 |

STATEMENT C.—Showing population, deaths, and death rates for the eleven years ending June 30, 1886.

| Years. | Population. | | | Deaths. | | | Death rates. | | |
|------------------|-------------|----------|---------|---------|----------|--------|--------------|----------|--------|
| | White. | Colored. | Total. | White. | Colored. | Total. | White. | Colored. | Total. |
| 1876 | 106,741 | 50,859 | 157,600 | 2,086 | 2,074 | 4,160 | 19.54 | 40.78 | 26.40 |
| 1877 | 109,505 | 52,870 | 162,375 | 2,187 | 2,021 | 4,208 | 19.97 | 38.22 | 25.91 |
| 1878 | 112,340 | 54,960 | 167,300 | 2,166 | 2,065 | 4,231 | 19.28 | 37.57 | 25.29 |
| 1879 | 115,247 | 57,130 | 172,377 | 2,196 | 2,113 | 4,309 | 19.05 | 36.99 | 24.99 |
| 1880 | 118,236 | 59,402 | 177,638 | 2,085 | 2,121 | 4,207 | 17.63 | 35.71 | 25.68 |
| 1881 | 121,300 | 61,760 | 183,060 | 2,205 | 1,951 | 4,156 | 18.18 | 31.27 | 25.59 |
| 1882 | 124,441 | 64,212 | 188,653 | 2,353 | 2,118 | 4,571 | 18.91 | 34.54 | 24.23 |
| 1883 | 126,300 | 65,680 | 191,980 | 2,270 | 2,016 | 4,286 | 17.97 | 30.69 | 24.33 |
| 1884 | 130,700 | 69,300 | 200,000 | 2,576 | 2,238 | 4,814 | 19.71 | 32.29 | 24.07 |
| 1885 | 130,700 | 69,300 | 200,000 | 2,610 | 2,368 | 4,998 | 19.97 | 34.45 | 24.09 |
| 1886 | 136,000 | 69,000 | 205,000 | 2,442 | 2,232 | 4,674 | 17.96 | 32.35 | 22.80 |
| Total | | | | 25,176 | 23,417 | 48,594 | | | |
| Percentage | | | | | | | 18.91 | 34.72 | 24.22 |

* One included in total whose color could not be ascertained.

The following is a synopsis of the work performed in the various branches of the service during the year:

There were 19,621 nuisances reported and abated; 45,525 pounds of meat, 103,496 pounds of fish, 14,680½ bushels of fruit and vegetables, 3,514 bushels of oysters, 116,117 clams, and 149,059 crabs condemned as unfit for food.

Examinations and reports were made on 1,648 citizens' complaints, 1,088 official letters written, 1,394 official notices were issued, 79 cases were referred to the attorney, and 39 to the chemist for action.

There were 3,201 animals impounded, and the contractor for the removal of offal took away 8,808 dead animals, 14,897 tons of garbage, and 24,244 barrels of night-soil.

The physicians to the poor treated 16,901 patients, of which number 5,430 were white and 11,471 were colored.

There were 4,965 burial permits of all kinds issued, and 456 orders issued for burials at the public expense.

There were 3,021 inspections of plumbing work made, and 125 inspections of houses made in which there was no drainage, but yards were connected with sewers.

One hundred and seventy-three transcripts from the records of births, marriages, and deaths were furnished applicants, and 34 permits issued

for obstruction of travel on streets on account of serious illness of residents.

THE ABATEMENT OF NUISANCES.

The tabular statements following, arranged alphabetically from A to K, inclusive, present concise exhibits of the work performed in the various branches of the service other than that of the collection and recording of vital statistics. The subjects embraced are the abatement of nuisances, the inspection and condemnation of unwholesome food, the impounding of domestic animals, the inspection of marine products, the removal of offals, and the care of the sick poor.

Table A presents a consolidated report of nuisances reported and abated during the year, and Table B gives like information for a period of five years.

The number of nuisances abated during the year aggregated 19,621, while the grand total for five years reached 82,790.

Alleys.—The nuisances found in alleys are given under three heads, and numbered during the year, one hundred and thirty-four, being a reduction of eighty-six from the year previous, ninety-three less than in 1884, and one hundred and forty-nine less than in 1883.

The decrease in nuisances of this class is attributable mainly to the progress of improvements; when paved and sewered, alleys are rarely found in a state of nuisance.

Ashes.—Under this heading we find six hundred and thirty-four nuisances reported. In commenting upon the subject I do not think I can do better than to quote from my annual reports of 1884 and 1885.

In 1884 I said to the Commissioners:

“To reiterate, for several years past I have been urging in my annual reports that action be taken looking to the removal of ashes from dwellings at the public expense. I have pointed out the necessity for such action as a sanitary measure, and pictured the manner in which many nuisances result from the accumulations of ashes on premises.

“There are many large deposits now on open lots, in the unimproved alleys, and in the yards of private premises. These piles invite the addition of other refuse of various kinds and are a constant source of nuisance. If we could succeed in getting the present accumulations removed, I think that the regular removal of ashes from dwellings could be accomplished at the same cost as is annually paid for the collection of garbage.”

Last year, again calling special attention to the necessity for the collection and removal of ashes at the public expense, and the feasibility of combining the removal of ashes with the removal of garbage, I said:

“The existing contract for collection and removal of garbage expires on the 1st of July, 1886. At that time a new contract must be made providing for this service, and it should provide for the *daily* collection of both ashes and garbage, and the removal of this offal beyond the limits of the District of Columbia.

“An increase of the price paid at present will, of course, be demanded. We cannot tell, of course, what the proposals will be to do the work of collecting and removing both ashes and garbage *daily*, but I think at least double the amount now appropriated should be asked. The present contractor is only required to remove garbage tri-weekly during the summer and semi-weekly during the winter months. The increase to a daily service is necessary, and, with the addition of the work of removing ashes, I think the labor can be performed with a uniform force the year round. Accumulations of garbage always largely decrease in

the winter, at which time the accumulations of ashes are the largest, while in summer it is *vice versa*. A wagon carrying twelve barrels would in the winter collect probably nine barrels of ashes and three of garbage, while in the summer this would be about reversed. The contract should only contemplate the collection and removal of ashes made from and after the 1st of July, as it would be an impossibility to collect and remove the present accumulations, even if \$30,000 were appropriated for this purpose alone."

I did not include in my estimates an item covering such service, as its connection with the items for the removal of garbage last year, and the reduction of the two, came near impairing the prospect of securing proper service for the latter.

A new contract will require to be made for removal of garbage from and after July 1, 1887, and I hope we may be able to have provision made for collection and removal of ashes also.

House nuisances.—A reduction in the class of nuisances reported, from 132 in 1880 to 80 this year, is an indication of a healthful improvement in the sanitary condition of that class of dwellings where nuisances are usually found.

Privies.—The increase in the number of privies reported may be accounted for by reason of the large increase in the number of small houses erected in the outskirts of the city. There were 13,271 nuisances of this class reported during the year.

Manure.—There were reported during the year 433 nuisances resulting from manure heaps. I have called attention in several former reports to the necessity for providing regular points of deposit for the stable manure of the city which accumulates in large quantity during certain seasons of the year. If certain points were designated, and all persons removing manure compelled to use these places only, then numerous nuisances would be prevented on the open spaces of the city.

TABLE A.—Consolidated report of nuisances for the year ending June 30, 1886.

| Nature of nuisance. | 1885. | | | | | | 1886. | | | | | | Total. |
|-----------------------------------|-------|---------|------------|----------|-----------|-----------|----------|-----------|--------|--------|------|-------|--------|
| | July. | August. | September. | October. | November. | December. | January. | February. | March. | April. | May. | June. | |
| Alleys, filthy..... | 10 | 16 | 10 | 9 | 8 | 1 | 1 | 2 | 4 | 11 | 17 | 11 | 100 |
| Alleys, garbage in..... | 14 | 1 | 2 | 6 | | 1 | 1 | | | | 1 | 1 | 24 |
| Alleys need repair..... | 2 | 1 | 4 | | | | | | | | | | 10 |
| Areas..... | | | 1 | 1 | | | | | | | 2 | | 6 |
| Ashes..... | 65 | 60 | 36 | 53 | 40 | 48 | 14 | 41 | 90 | 63 | 91 | 33 | 634 |
| Cellars..... | 7 | 6 | 3 | 6 | 4 | 8 | 2 | 5 | 2 | 3 | 13 | 14 | 73 |
| Drainage, surface..... | 35 | 40 | 22 | 20 | 34 | 25 | 8 | 16 | 14 | 57 | 68 | 51 | 390 |
| Garbage..... | 20 | 27 | 12 | 9 | 19 | 22 | 3 | 22 | 25 | 25 | 16 | 11 | 211 |
| Gutters..... | 2 | 18 | 14 | 4 | 4 | 3 | 3 | 6 | | 3 | 11 | 10 | 78 |
| Hog-pens..... | 3 | 3 | | | | 1 | | | | | 6 | 1 | 14 |
| Houses, filthy..... | 1 | | 1 | | | 1 | 1 | 1 | 1 | 8 | 5 | 3 | 22 |
| Houses, unfit for habitation..... | 2 | 5 | | 1 | | 1 | | | | | 3 | 4 | 16 |
| Houses, slaughter..... | | | | 1 | | 1 | 1 | | | | 6 | 2 | 42 |
| Houses, no privy..... | 1 | 2 | 2 | 3 | | 10 | 5 | 2 | 3 | 7 | 3 | 4 | 89 |
| Hydrants..... | 4 | 10 | 13 | 6 | 13 | 9 | 3 | 3 | 6 | 2 | 4 | 16 | 88 |
| Lots, filthy..... | 4 | 34 | 25 | 7 | 3 | 2 | 1 | 2 | | 4 | 4 | 2 | 59 |
| Lots, stagnant water..... | 2 | 10 | 3 | 1 | 7 | 21 | | 1 | 2 | 16 | 11 | 6 | 433 |
| Manure..... | 45 | 40 | 39 | 30 | 34 | 21 | 6 | 16 | 21 | 31 | 71 | 79 | 772 |
| Miscellaneous..... | 90 | 98 | 66 | 63 | 48 | 33 | 60 | 39 | 24 | 48 | 93 | 110 | 106 |
| Pipes, water..... | 4 | 2 | 3 | 12 | 5 | 11 | 17 | 22 | 11 | 7 | 8 | 4 | 5,913 |
| Privies, filthy..... | 412 | 390 | 579 | 609 | 540 | 533 | 275 | 238 | 638 | 433 | 722 | 564 | 149 |
| Privies, dilapidated..... | 21 | 22 | 12 | 16 | 16 | 8 | 5 | 6 | 11 | 3 | 21 | 8 | 6,415 |
| Privies, full..... | 467 | 433 | 526 | 696 | 582 | 574 | 275 | 236 | 657 | 476 | 798 | 695 | 943 |
| Privies, leaky boxes..... | 152 | 118 | 127 | 103 | 50 | 44 | 23 | 15 | 40 | 36 | 72 | 163 | 2 |
| Fonds..... | | | | | | | | | | 1 | 1 | | |

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TABLE A.—Consolidated report of nuisances, &c.—Continued.

| Nature of nuisance. | 1885. | | | | | | 1886. | | | | | | Total. |
|--------------------------|-------|---------|------------|----------|-----------|-----------|----------|-----------|--------|--------|-------|-------|--------|
| | July. | August. | September. | October. | November. | December. | January. | February. | March. | April. | May. | June. | |
| Roofs, leaky..... | | 1 | 1 | 1 | 1 | 2 | 1 | | 3 | 2 | 1 | | 13 |
| Sewers..... | 33 | 33 | 27 | 42 | 29 | 26 | 22 | 34 | 30 | 48 | 43 | 46 | 413 |
| Sewers, connection..... | 5 | 7 | 2 | 1 | 1 | 3 | 2 | | 1 | 1 | 6 | 6 | 35 |
| Stables..... | 3 | 14 | 9 | 10 | 9 | 7 | | 4 | 8 | 6 | 29 | 13 | 112 |
| Stables, cow..... | 1 | 2 | 3 | | 5 | 5 | 2 | 2 | 7 | 3 | 8 | 11 | 52 |
| Streets, filthy..... | | 2 | | | | | | | | | | 1 | 3 |
| Streets need repair..... | | | | | | | | | | | | 1 | 1 |
| Traps, sewer..... | 13 | 6 | 9 | 5 | 4 | 2 | 1 | 5 | | 5 | 19 | 18 | 89 |
| Yards..... | 173 | 212 | 233 | 186 | 196 | 110 | 30 | 51 | 140 | 155 | 220 | 184 | 1,890 |
| Yards, cow..... | | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | | | | 12 |
| Vaults, privy..... | 1 | | | 1 | 6 | 2 | 2 | 5 | | 2 | 2 | 1 | 22 |
| Water-closets..... | 19 | 36 | 32 | 34 | 40 | 30 | 30 | 23 | 35 | 31 | 26 | 40 | 376 |
| Total..... | 1,595 | 1,665 | 1,814 | 1,939 | 1,707 | 1,545 | 795 | 788 | 1,772 | 1,488 | 2,402 | 2,111 | 19,621 |

TABLE B.—Consolidated report of nuisances for five years ending June 30, 1886.

| Nature of nuisance. | 1882. | 1883. | 1884. | 1885. | 1886. | Total. |
|----------------------------------|--------|--------|--------|--------|--------|--------|
| Alleys..... | 228 | 283 | 227 | 220 | 134 | 1,092 |
| Areas..... | 35 | 35 | 63 | 28 | 10 | 171 |
| Cellars..... | 184 | 146 | 140 | 97 | 73 | 640 |
| Drainage..... | 416 | 378 | 404 | 305 | 390 | 1,893 |
| Excavations..... | 3 | | | | | 3 |
| Gutters..... | 319 | 203 | 254 | 178 | 78 | 1,032 |
| Garbage..... | 67 | 76 | 359 | 322 | 211 | 1,035 |
| Hog-pens..... | 40 | 26 | 26 | 40 | 14 | 146 |
| Houses, filthy..... | 60 | 53 | 38 | 49 | 22 | 222 |
| Houses unfit for habitation..... | 81 | 85 | 38 | 53 | 16 | 273 |
| Houses, no privy..... | 45 | 34 | 20 | 30 | 42 | 171 |
| Hydrants..... | 42 | 85 | 89 | 155 | 89 | 460 |
| Lots, filthy..... | 169 | 50 | 160 | 138 | 88 | 605 |
| Manure heaps..... | 549 | 697 | 649 | 399 | 433 | 2,727 |
| Markets, public..... | 1 | 1 | 1 | | | 3 |
| Miscellaneous..... | 2,839 | 2,445 | 2,119 | 1,766 | 1,407 | 10,576 |
| Pumps..... | | 2 | 12 | 1 | | 15 |
| Pipes, water..... | 62 | 65 | 108 | 141 | 106 | 482 |
| Ponds, stagnant..... | 50 | 21 | 9 | 92 | 61 | 233 |
| Privies, filthy..... | 3,073 | 2,498 | 3,189 | 4,338 | 5,913 | 19,011 |
| Privies, full..... | 3,698 | 2,232 | 2,498 | 3,612 | 6,415 | 18,455 |
| Privies, leaky boxes..... | 780 | 601 | 688 | 690 | 943 | 3,702 |
| Privies, dilapidated..... | 141 | 88 | 57 | 76 | 149 | 511 |
| Roofs, leaky..... | 47 | 34 | 19 | 14 | 13 | 127 |
| Sewers, public..... | 308 | 355 | 355 | 403 | 413 | 1,834 |
| Sewers, house connection..... | 70 | 74 | 48 | 28 | 35 | 255 |
| Slaughter-houses..... | 2 | 10 | 8 | 4 | 11 | 35 |
| Stables..... | 262 | 314 | 361 | 232 | 164 | 1,333 |
| Streets, filthy..... | 29 | 12 | 6 | 1 | 3 | 51 |
| Traps, sewer..... | 188 | 134 | 177 | 90 | 88 | 677 |
| Yards..... | 2,893 | 2,809 | 3,062 | 2,633 | 1,890 | 13,287 |
| Yards, cow..... | 73 | 35 | 18 | 17 | 12 | 155 |
| Vaults, privy..... | 15 | 10 | 5 | 9 | 22 | 61 |
| Water-closets..... | 211 | 266 | 257 | 407 | 376 | 1,517 |
| Total..... | 16,980 | 14,157 | 15,464 | 16,568 | 19,621 | 82,790 |

UNWHOLESOME FOOD CONDEMNATIONS.

Tables C and D present statements showing the character and extent of food condemned as unwholesome during the year. The inspection force in this branch of the service has been active and energetic, and a large quantity of unsound meat, fruit, and vegetables has been kept from the tables of the poorer classes, where most of it would have found its way. Some of the principal items of condemnation were, 20,460 pounds of beef, 13,416 pounds of mutton, 9,982 pounds of poultry, 5,425 pounds of veal, 5,866 pounds of bacon, &c., 31,335 heads of cabbage and lettuce, 11,216 dozen of cucumbers, 16,682 cantaloupes, 9,398 water-melons, and 1,170 bushels of miscellaneous fruits and vegetables. These tables are well worth the consideration of every householder.

TABLE C.—Unwholesome food condemned during the year ending June 30, 1886.

| Articles. | 1885. | | | | | |
|--|-------|-------|-------|-------|-------|-------|
| | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
| Beef.....pounds.. | 3,194 | 2,443 | 2,069 | 1,215 | 1,088 | 710 |
| Mutton.....do.. | 1,770 | 1,976 | 1,076 | 1,783 | 1,110 | 1,018 |
| Veal.....do.. | 997 | 841 | 279 | 512 | 683 | 315½ |
| Pork.....do.. | 464 | 100 | 35 | 418 | 348 | 55 |
| Bacon.....do.. | 42 | 30 | 523 | 6 | | 53 |
| Sausage.....do.. | 51 | 6 | 18 | 115 | 118 | 60 |
| Venison.....do.. | | | | | | 412 |
| Chickens.....number.. | | | | 23 | 159 | |
| Ducks.....do.. | | | | 20 | 107 | 244 |
| Turkeys.....do.. | | | | 1 | 49 | 166 |
| Geese.....do.. | | | | | | 8 |
| Squirrels.....do.. | | | | | | 11 |
| Birds.....do.. | | | 3 | | 142 | 93 |
| Rabbits.....do.. | | | | 23 | 352 | 269 |
| Apples.....bushels.. | 39 | 80½ | 55½ | 30½ | 15 | 13½ |
| Peaches.....do.. | 72½ | 276½ | 71½ | 4½ | | |
| Pears.....do.. | 23½ | 106 | 28 | 10½ | 2½ | |
| Quinces.....do.. | | | | 2½ | | |
| Plums.....do.. | | 8 | 2½ | 5 | | |
| Bananas.....dozen.. | 58 | 27 | 19 | 4 | 17 | 50 |
| Lemons.....do.. | | | 125 | | | |
| Grapes.....pounds.. | | 120 | 361 | 696 | 259 | 67 |
| Berries.....quarts.. | 780½ | 764 | | | | |
| Cherries.....do.. | 143½ | | | | | |
| Cantaloupes.....number.. | 693 | 7,271 | 7,826 | 876 | | |
| Watermelons.....do.. | 969 | 6,227 | 2,065 | 106 | 22 | |
| Pine-apples.....do.. | 19 | | | | | |
| Asparagus.....bunches.. | 134 | 4 | | | | |
| Beets.....do.. | 68 | 87 | 12 | | | |
| Carrots.....do.. | | | | 5 | 6 | 9 |
| Celery.....do.. | | | | | 7 | 46 |
| Radishes.....do.. | 176 | | | 10 | 46 | 10 |
| Lettuce.....do.. | 129 | 50 | 44 | | 28 | 48 |
| Cabbage.....number.. | 1,930 | 4,712 | 2,265 | 1,263 | 797 | 741 |
| Cymplings.....do.. | 920 | 935 | 743 | 213 | 20 | 27 |
| Egg-plants.....do.. | 758 | 1,631 | 1,178 | 724 | 86 | |
| Cauliflower.....do.. | 23 | 54 | | 34 | 125 | 15 |
| Pumpkins.....do.. | | | | 7 | 34 | 74 |
| Corn.....dozen.. | 1,031 | 1,960 | 481 | 221 | 20 | |
| Cucumbers.....do.. | 2,523 | 1,250 | 274 | 414 | | |
| Kale.....bushels.. | | | | | 2½ | 10½ |
| Spinach.....do.. | | | | | 6 | 2½ |
| Parsnips.....do.. | | | | | 9½ | 11 |
| Potatoes.....do.. | 293½ | 70 | 54½ | 62½ | 36½ | 126½ |
| Peas.....do.. | 91 | | | | | |
| Beans.....do.. | 128½ | 22½ | 14½ | 19 | 7½ | |
| Turnips.....do.. | 57 | | 3½ | 3½ | 11 | 20½ |
| Tomatoes.....do.. | 98 | 230½ | 77½ | 41½ | 23 | 3½ |
| Eggs.....dozen.. | | 15 | | | | |
| Miscellaneous fruits and vegetables..... | 237½ | 175½ | 109½ | 61½ | 69½ | 56½ |

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TABLE C.—Unwholesome food condemned, &c.—Continued.

| Articles. | 1886. | | | | | | Total for the year. |
|--|-------|------|-------|-------|--------|-------|---------------------|
| | Jan. | Feb. | Mar. | Apr. | May. | June. | |
| Beef.....pounds..... | 294 | 243 | 774 | 2,229 | 2,533 | 3,668 | 20,460 |
| Mutton.....do..... | 361 | 208 | 745 | 1,225 | 1,121 | 1,221 | 13,614 |
| Veal.....do..... | 155 | 89 | 264 | 527 | 329 | 434 | 5,425½ |
| Pork.....do..... | 281 | 226 | 733 | 350 | 607 | 889 | 4,506 |
| Bacon.....do..... | | | | 12 | | 60 | 673 |
| Sausage.....do..... | 84 | 21 | 85 | 64 | 64 | 8 | 687 |
| Venison.....do..... | 100 | | | | | | 160 |
| Chickens.....number..... | 90 | 198 | 97 | 17 | 64 | 16 | 1,076 |
| Ducks.....do..... | 53 | 3 | 303 | 8 | | | 738 |
| Turkeys.....do..... | 117 | 28 | 42 | 19 | | | 422 |
| Geese.....do..... | | 4 | 20 | | | | 32 |
| Squirrels.....do..... | | 1 | | | | | 12 |
| Birds.....do..... | 159 | | | 7 | | | 404 |
| Rabbits.....do..... | 235 | 57 | 13 | | | | 949 |
| Apples.....bushels..... | 50½ | 104½ | 128½ | 189½ | 71 | 4½ | 782½ |
| Peaches.....do..... | | | | | | 3½ | 429 |
| Pears.....do..... | | | | | | ½ | 171 |
| Quinces.....do..... | | | | | | | 2½ |
| Plums.....do..... | | | | | | | 15½ |
| Bananas.....dozen..... | 29 | 20 | 12 | 183 | | | 419 |
| Oranges.....do..... | 17 | 530 | 285 | 1,187 | 400 | 200 | 2,619 |
| Lemons.....do..... | | 17 | | | | | 142 |
| Grapes.....pounds..... | | 30 | | | | | 1,533 |
| Cranberries.....bushels..... | 5 | | 5½ | | | | 10½ |
| Berries.....quarts..... | | | | 41 | 428 | 1,339 | 3,352½ |
| Cherries.....do..... | | | | | | 419 | 567½ |
| Cantaloupes.....number..... | | | | | | 16 | 16,682 |
| Watermelons.....do..... | | | | | | 9 | 9,398 |
| Pine-apples.....do..... | | 85 | | | | 606 | 710 |
| Asparagus.....bunches..... | | | | 186 | 519 | 282 | 1,125 |
| Beets.....do..... | | 3 | | | 17 | 4 | 191 |
| Carrots.....do..... | 25 | 43 | 39 | 4 | 46 | 25 | 202 |
| Celery.....do..... | 132½ | 58½ | 85½ | 73 | | | 402½ |
| Radishes.....do..... | 10 | | | 7,116 | 4,647 | 787 | 12,802 |
| Rhubarb.....do..... | | 3 | 6 | 136 | 564 | 550 | 1,259 |
| Lettuce.....do..... | | 8 | 10 | 194 | 2,774 | 2,268 | 5,553 |
| Cabbage.....number..... | 453 | 405 | 1,724 | 235 | 5,517 | 5,740 | 25,782 |
| Cynlins.....do..... | 49 | 3 | 11 | | 71 | 3,532 | 6,524 |
| Egg-plants.....do..... | | | | | | | 4,377 |
| Canliflower.....do..... | 28 | | | | | 24 | 303 |
| Pumpkins.....do..... | 167 | 7 | | | | | 289 |
| Corn.....dozen..... | | | | | | | 3,713 |
| Cucumbers.....do..... | | | | 4 | 2,308½ | 4,443 | 11,216½ |
| Kale.....bushels..... | 1½ | 16½ | 74½ | 428½ | 167½ | | 701½ |
| Spinach.....do..... | 2 | | ½ | 1 | | | 12 |
| Paranips.....do..... | 4 | 7½ | 17½ | 17½ | | | 68 |
| Potatoes.....do..... | 150½ | 108½ | 51 | 65 | 149½ | 122½ | 12,89½ |
| Peas.....do..... | | | | ½ | 50½ | 55 | 197 |
| Beans.....do..... | | | | 6 | 142½ | 130 | 470 |
| Turnips.....do..... | 17½ | 46½ | 53½ | 36½ | 2½ | | 248½ |
| Tomatoes.....do..... | | | | | 6 | 127½ | 608 |
| Onions.....do..... | | | 11 | 10 | 7½ | | 28½ |
| Eggs.....dozen..... | | | | | | 300 | 315 |
| Miscellaneous fruits and vegetables..... | 34½ | 27 | 45½ | 88 | 93½ | 143 | 1,141½ |

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TABLE D.—Unwholesome food condemnations for five years ending June 30, 1886.

| Articles. | 1882. | 1883. | 1884. | 1885. | 1886. | Total. |
|---|--------|--------|--------|---------|---------|---------|
| Beef.....pounds.. | 19,056 | 8,854 | 9,657 | 10,716½ | 20,460 | 68,743½ |
| Veal.....do.. | 3,143 | 1,380 | 1,412 | 1,982½ | 5,425½ | 13,292½ |
| Mutton.....do.. | 5,311 | 1,919 | 2,548 | 2,903 | 13,614 | 26,395 |
| Bacon, ham, and pork.....do.. | 3,952 | 1,252 | 2,679 | 2,026 | 5,866 | 15,775 |
| Birds, rabbits, and squirrels.....number.. | 577 | 123 | 206 | 407 | 1,365 | 2,678 |
| Poultry.....pounds.. | 5,211 | 3,700 | 1,939 | 4,264 | 9,982 | 25,096 |
| Eggs.....dozen.. | 288 | 185 | 31 | 16 | 315 | 835 |
| Cheese and butter.....pounds.. | ..... | 1,640 | 25 | ..... | ..... | 1,625 |
| Potatoes and parsnips.....bushels.. | 561½ | 888½ | 2,557 | 711½ | 1,357½ | 6,056 |
| Beans, peas, and onions.....do.. | 541½ | 418 | 347½ | 879 | 695½ | 2,881½ |
| Cabbage and lettuce.....heads.. | 7,168 | 11,880 | 8,692 | 27,568 | 31,335 | 86,643 |
| Squashes and pumpkins.....number.. | 8,257 | 5,813 | 6,142 | 4,952 | 6,813 | 31,977 |
| Corn.....dozen.. | 2,129 | 1,456½ | 1,716½ | 1,998 | 3,713 | 11,013 |
| Cucumbers.....do.. | 3,668 | 3,520½ | 3,861½ | 7,233 | 11,216½ | 29,439½ |
| Egg plants.....number.. | 2,349 | 2,040 | 811 | 2,878 | 4,377 | 12,455 |
| Tomatoes and turnips.....bushels.. | 422½ | 376½ | 897 | 1,326½ | 856½ | 3,878½ |
| Kale and spinach.....do.. | 279½ | 343½ | 1,535½ | 301½ | 713½ | 3,173 |
| Apples, peaches, and pears.....do.. | 293 | 442½ | 874 | 498½ | 1,385½ | 3,493½ |
| Watermelons.....number.. | 7,526 | 19,830 | 6,892 | 12,161 | 9,398 | 55,717 |
| Cantaloupes.....do.. | 12,166 | 18,000 | 8,541 | 9,705 | 16,682 | 65,094 |
| Berries.....quarts.. | 1,121 | 2,144 | 2,232 | 3,620 | 3,920½ | 13,037½ |
| Oranges and lemons.....dozen.. | 1,766 | 300½ | 636½ | 8,539½ | 2,761 | 14,003½ |
| Bananas.....do.. | ..... | ..... | 339½ | 314½ | 419 | 1,072½ |
| Grapes.....pounds.. | ..... | ..... | 895 | 534 | 1,533 | 2,962 |
| Miscellaneous fruits and vegetables.....bushels.. | 1,243 | 1,368½ | 1,206½ | 1,718 | 1,170 | 6,705½ |
| Miscellaneous vegetables.....bunches.. | 3,460 | 3,336 | 12,845 | 9,872 | 15,981½ | 45,494½ |

In the following tabular statements (Tables E and F) there is presented a showing of the marine products inspected and those condemned during the year, as well as a comparative statement covering the service during the past five years. There was an increase of 64,528 in the receipts of shad during the year, and a falling off of 2,804,750 in herring. There was also a slight decrease in receipts of bunch fish and a considerable increase in the number of bushels of oysters. The principal condemnations were 136,700 herring, 15,001 bunches of bunch fish, 3,514 bushels of oysters, 116,117 clams, and 141,059 crabs. This work has been performed in the satisfactory manner usual, and the office has furnished the U. S. Commissioner of Fish and Fisheries with regular monthly statements giving statistics of the fish trade in the District.

TABLE E.—Inspections and condemnations of marine products for the year ending June 30, 1886.

| Articles. | July, 1885. | August, 1885. | Septem- ber, 1885. | October, 1885. | Novem- ber, 1885. | Decem- ber, 1885. | January, 1886. | Febru- ary, 1886. | March, 1886. | April, 1886. | May, 1886. | June, 1886. | Total. |
|---------------------------|----------------|------------------|-----------------------|-------------------|----------------------|----------------------|-------------------|----------------------|-----------------|-----------------|---------------|----------------|-----------|
| INSPECTIONS. | | | | | | | | | | | | | |
| Oysters..... bushels | 420 | 600 | 24,825 | 70,050 | 70,700 | 55,600 | 29,150 | 23,500 | 34,610 | 20,250 | 3,135 | 1,050 | 333,390 |
| Clams..... number | 449,000 | 438,000 | 133,000 | 6,000 | | | | | | 73,800 | 411,000 | 595,000 | 2,103,800 |
| Crabs..... do | 145,400 | 119,000 | 81,600 | 2,300 | | | | | | 14,000 | 123,500 | 162,100 | 639,900 |
| Shad..... do | | | | 725 | 1,266 | 2,644 | 1,637 | 1,678 | 7,345 | 433,733 | 38,326 | 2,274 | 189,828 |
| Herring..... do | | | | | | | | | 831,844 | 4,390,003 | 2,247,756 | 38,624 | 7,008,223 |
| Mackerel..... do | 1,052 | 829 | 1,036 | | | | | | | | 110 | 1,149 | 4,066 |
| Sheepshead..... do | 1,131 | 269 | 1,189 | | | | | | | | | 437 | 1,166 |
| Porgies..... do | 80 | | | | | | | | | | | 492 | 372 |
| Striped bass..... bunches | 7,952 | 4,632 | 8,868 | 8,363 | 10,776 | 4,722 | 1,227 | 413 | 8,716 | 4,710 | 1,387 | 3,063 | 61,851 |
| Blue-fish..... do | 7,364 | 6,162 | 10,769 | 5,220 | | | | | | 5,707 | | 6,400 | 42,422 |
| Croakers..... do | 60 | | | | | | | | | | | | 60 |
| Eels..... do | 320 | 275 | 380 | 575 | 775 | 612 | 17 | 79 | 283 | 1,875 | 1,122 | 432 | 6,745 |
| Sturgeon..... number | 67 | 172 | 156 | 1 | | | | | | | | | 1,337 |
| Pike..... bunches | 368 | 22 | | 1,579 | 1,793 | 1,453 | 588 | 638 | 3,930 | 11 | 432 | 608 | 11,106 |
| Perch, yellow..... do | 157 | | | 723 | 1,555 | 2,705 | 1,198 | 1,056 | 4,714 | 1,876 | 108 | 119 | 34,321 |
| Perch, white..... do | 2,073 | 1,310 | 2,357 | 5,653 | 6,455 | 2,557 | 98 | 814 | 4,810 | 4,700 | 1,700 | 329 | 34,890 |
| Trout..... do | 1,117 | 908 | 2,705 | 7,089 | | | | | | 1,135 | 6,343 | 2,363 | 54,890 |
| Catfish..... do | 6,639 | 6,487 | | 5,574 | 5,459 | 4,623 | 1,713 | 1,659 | 6,870 | 9,429 | 6,477 | 5,029 | 52,314 |
| Mulletts..... do | 256 | | 76 | 963 | 1,098 | 756 | | | | | 24 | 5,948 | 58,878 |
| Turtles..... number | 17 | | | 6 | 2 | | | | | 793 | | | 6,367 |
| Spots..... bunches | 333 | 1,932 | 4,037 | 1,733 | | | | | | | 4 | 15 | 8,244 |
| Drumfish..... number | | 2 | | 3 | | | | | | | | 210 | 8,244 |
| Chubs..... bunches | | | | | | | | | | | 3 | | 8 |
| Sharks..... number | 2 | | 111 | | 1,330 | 1,080 | 120 | 360 | | | | | 3,002 |
| Carp..... do | | | | | | | | 17 | | 2 | 22 | 41 | 122 |
| Hickory jacks..... do | | | | | | | | | | | | | |
| CONDEMNATIONS. | | | | | | | | | | | | | |
| Oysters..... bushels | | | 236 | 228 | 300 | 200 | | | 1,575 | 967 | 8 | | 3,514 |
| Clams..... number | 31,354 | 20,388 | 7,700 | | | | | | | 3,250 | 11,275 | 41,750 | 116,117 |
| Crabs..... do | 31,700 | 24,330 | 18,409 | 650 | | | | | 500 | 4,050 | 28,170 | 33,250 | 141,059 |
| Shad..... do | | | | | | | | | | 198 | 27 | | 225 |
| Herring..... do | 300 | | | | | | | | | 120,700 | 14,500 | 1,200 | 136,700 |
| Sharks..... do | 2 | | | | | | | | | | | | 2 |
| Turtles..... do | 1 | | | | | | | | | | | | 1 |
| Fish..... bunches | 2,469 | 754 | 970 | 1,548 | 1,122 | 272 | 423 | 98 | 1,122 | 3,001 | 1,264 | 1,764 | 14,747 |
| Sturgeon..... number | | 7 | 3 | | 109 | | | | | | | 3 | 13 |
| Mackerel..... do | | | | | | | | | | | | | 109 |
| Sheepshead..... do | | | 28 | | | | | | | | | 1 | 29 |

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TABLE F.—*Inspections and condemnations of marine products for five years ending June 30, 1886.*

INSPECTIONS.

| Years. | Shad. | Herring. | Blue-fish. | Fish. | Sturgeon. | Oysters. | Clams. | Crabs. |
|-----------|-----------|------------|------------|-----------------|-----------|-----------------|-----------|-----------|
| | | | | <i>Bunches.</i> | | <i>Bushels.</i> | | |
| 1882..... | 350,309 | 6,439,635 | 164,757 | 211,268 | 1,759 | 359,354 | 989,921 | 364,598 |
| 1883..... | 258,711 | 4,960,426 | 61,310 | 296,419 | 1,752 | 353,402 | 1,247,064 | 587,335 |
| 1884..... | 231,129 | 5,650,812 | 21,703 | 278,543 | 1,564 | 365,246 | 1,787,806 | 865,428 |
| 1885..... | 125,300 | 9,812,973 | ..... | 279,346 | 1,320 | 283,142 | 1,442,900 | 747,500 |
| 1886..... | 189,828 | 7,098,223 | 212,110 | 231,764 | 1,537 | 333,390 | 2,105,800 | 639,900 |
| Total.. | 1,155,277 | 33,872,069 | 459,880 | 1,297,340 | 7,932 | 1,694,534 | 7,573,491 | 3,204,671 |

CONDEMNATIONS.

| | | | | | | | | |
|-----------|-------|---------|-------|--------|-----|--------|---------|---------|
| 1882..... | 3,865 | 14,011 | 33 | 9,645 | 144 | 12,559 | 31,977 | 91,238 |
| 1883..... | 35 | 25,363 | 55 | 12,020 | 17 | 16,387 | 59,700 | 107,160 |
| 1884..... | 275 | 23,757 | ..... | 14,508 | 29 | 3,180 | 68,464 | 210,917 |
| 1885..... | 203 | 192,984 | ..... | 11,609 | 34 | 2,215 | 58,228 | 190,744 |
| 1886..... | 225 | 136,700 | ..... | 15,001 | 13 | 3,514 | 116,117 | 141,059 |
| Total.. | 4,423 | 392,815 | 88 | 62,783 | 237 | 37,855 | 334,486 | 741,118 |

THE IMPOUNDING OF DOMESTIC ANIMALS.

The total number of animals impounded during the year (as shown by Table G) reached 3,201, of which number 2,968 were dogs. During the past five years (as shown by Table H) there have been 17,353 animals impounded, and of this number 15,748 were dogs.

The dogs killed during the past year numbered 2,893.

TABLE G.—*Operations of the pound for the year ending June 30, 1886.*

| Months. | Impounded. | | | | | | | | Disposition. | | | | Amount realized from fees. | |
|-----------------|------------|--------|-------|--------|-------|--------|--------|-------|--------------|-----------|---------|--------------|----------------------------|---------|
| | Horses. | Mules. | Cows. | Sheep. | Hogs. | Goats. | Geese. | Dogs. | Total. | Redeemed. | Killed. | Dogs killed. | | Sold. |
| 1885. | | | | | | | | | | | | | | |
| July | 1 | ..... | 5 | ..... | ..... | ..... | 27 | 104 | 137 | 33 | 104 | 104 | ..... | \$26 25 |
| August | 3 | ..... | 10 | 1 | ..... | 1 | 17 | 445 | 477 | 31 | 445 | 444 | 1 | 36 50 |
| September | 6 | ..... | 15 | ..... | 1 | 2 | 4 | 475 | 503 | 28 | 460 | 459 | 14 | 147 75 |
| October | 1 | ..... | 8 | ..... | ..... | 5 | 7 | 326 | 347 | 24 | 318 | 318 | 5 | 43 50 |
| November | 1 | ..... | 9 | ..... | ..... | 3 | 21 | 155 | 188 | 18 | 149 | 147 | 5 | 35 50 |
| December ..... | ..... | ..... | ..... | ..... | ..... | 5 | ..... | 243 | 248 | 4 | 239 | 239 | 5 | 14 00 |
| 1886. | | | | | | | | | | | | | | |
| January ..... | ..... | ..... | 5 | ..... | ..... | 3 | ..... | 47 | 55 | 9 | 46 | 46 | ..... | 15 00 |
| February ..... | ..... | ..... | ..... | ..... | ..... | 2 | 2 | 115 | 119 | 5 | 111 | 111 | 3 | 11 00 |
| March | 1 | ..... | ..... | ..... | ..... | 5 | 4 | 228 | 238 | 18 | 216 | 216 | ..... | 32 00 |
| April ..... | ..... | ..... | 2 | ..... | ..... | 8 | 2 | 356 | 368 | 14 | 349 | 348 | ..... | 25 00 |
| May | 3 | 1 | 7 | ..... | ..... | 9 | ..... | 295 | 315 | 27 | 285 | 284 | ..... | 49 00 |
| June | 7 | 1 | 5 | ..... | ..... | 9 | 5 | 179 | 206 | 19 | 185 | 177 | 1 | 30 50 |
| Total | 22 | 2 | 66 | 1 | 1 | 52 | 89 | 2,968 | 3,201 | 230 | 2,907 | 2,893 | 42 | 466 00 |

TABLE H.—*Animals impounded during the five years ending June 30, 1886.*

| Years. | Horses. | Cows. | Mules. | Hogs. | Geese. | Sheep. | Goats. | Dogs. | Total. |
|-------------|---------|-------|--------|-------|--------|--------|--------|--------|--------|
| 1882 | 39 | 161 | 3 | 3 | 252 | 8 | 90 | 3,884 | 4,440 |
| 1883 | 15 | 204 | 2 | 2 | 80 | ... | 66 | 3,007 | 3,376 |
| 1884 | 31 | 120 | 2 | 2 | 75 | ... | 29 | 2,699 | 2,958 |
| 1885 | 15 | 52 | 4 | 2 | 48 | 3 | 64 | 3,190 | 3,378 |
| 1886 | 22 | 66 | 2 | 1 | 89 | 1 | 52 | 2,968 | 3,201 |
| Total | 122 | 603 | 13 | 10 | 544 | 12 | 301 | 15,748 | 17,353 |

THE INDIGENT SICK.

Table I presents a statement by months, showing the work of the physicians to the poor during the year. Compared with the year 1885, an increase of 1,690 patients treated is shown, of which number 952 were among the colored race. The total number was 16,901, and the cost of medicine furnished \$2,862.75.

TABLE I.—*The sick poor.*

| Months. | Patients treated. | White. | Colored. | Visits made. | Office consultations. | Cost of medicines furnished. |
|-----------------|-------------------|--------|----------|--------------|-----------------------|------------------------------|
| 1885. | | | | | | |
| July | 1,272 | 447 | 825 | 1,747 | 426 | \$223 65 |
| August | 981 | 355 | 626 | 1,304 | 412 | 195 05 |
| September | 1,556 | 547 | 1,009 | 2,184 | 458 | 307 75 |
| October | 1,219 | 419 | 800 | 1,746 | 401 | 220 75 |
| November | 1,183 | 371 | 812 | 1,613 | 448 | 195 75 |
| December | 1,421 | 441 | 980 | 1,777 | 518 | 212 45 |
| 1886. | | | | | | |
| January | 1,454 | 458 | 996 | 1,818 | 463 | 239 35 |
| February | 1,620 | 455 | 1,165 | 2,006 | 487 | 271 95 |
| March | 2,106 | 709 | 1,397 | 2,582 | 698 | 352 80 |
| April | 1,344 | 420 | 924 | 1,664 | 455 | 221 25 |
| May | 1,259 | 356 | 903 | 1,532 | 422 | 196 00 |
| June | 1,486 | 452 | 1,034 | 1,851 | 471 | 226 00 |
| Total | 16,901 | 5,430 | 11,471 | 21,824 | 5,659 | 2,862 75 |

THE REMOVAL OF OFFAL.

The information respecting the removal of offal, as given in Table K, shows an increase in the amount of garbage collected and removed during the year, as compared with the year previous, of 967 tons; also an increase of 417 in the number of barrels of night-soil. There was a small decrease in the number of dead animals.

TABLE K.—*Offal removed.*

| Months. | Dead animals. | Garbage. | Night-soil. | Months. | Dead animals. | Garbage. | Night-soil. |
|-----------------|---------------|----------|-------------|----------------|---------------|----------|-------------|
| 1885. | No. | Tons. | Barrels. | 1886. | No. | Tons. | Barrels. |
| July | 933 | 1,466 | 2,820 | January | 254 | 872 | 1,038 |
| August | 1,126 | 1,449 | 2,080 | February | 394 | 825 | 920 |
| September | 1,109 | 2,164 | 2,810 | March | 742 | 1,132 | 1,660 |
| October | 576 | 1,115 | 2,100 | April | 904 | 1,033 | 2,020 |
| November | 387 | 918 | 2,010 | May | 770 | 1,171 | 2,200 |
| December | 733 | 1,118 | 1,980 | June | 880 | 1,634 | 2,600 |
| | | | | Total | 8,808 | 14,897 | 24,244 |

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MEDICAL SANITARY INSPECTION.

The report of the medical sanitary inspector is presented herewith. This labor, which is mainly the ascertainment as to whether or not there exists local cause for the disease where fatal cases of zymotic disease has occurred, is of a very important character. The inspector, however, owing to the limited force of the department, is called upon, in addition, to superintend the compilation of the tables of vital statistics, and to give professional services in several other ways. The salary paid him, \$1,200 per annum, is not just compensation for the services rendered, and I hope an increase of \$200 to \$300 can be secured.

REPORT OF THE MEDICAL SANITARY INSPECTOR.

SIR: I have the honor of presenting to you the following report of the duties performed by me as medical sanitary inspector in addition to my work in connection with the preparation of vital statistics, during the year ending June 30, 1896.

The year has been comparatively uneventful from a sanitary point of view, the total death-rate having been below the mean annual rate for the past eleven years, and the leading contagious diseases amenable for their absence of small mortality.

The following table shows the deaths from measles, scarlet fever, diphtheria, croup, typhoid fever, typho-malarial fever, and malarial fever during the past ten years:

| Year. | Measles. | | Scarlet-fever. | | Diphtheria. | | Croup. | | Typhoid fever. | | Typho-malarial fever. | | Malarial fever. | |
|------------|---------------|----------|----------------|----------|---------------|----------|---------------|----------|----------------|----------|-----------------------|----------|-----------------|----------|
| | Total deaths. | | Total deaths. | | Total deaths. | | Total deaths. | | Total deaths. | | Total deaths. | | Total deaths. | |
| | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. |
| 1887..... | 1 | 4 | 115 | 10 | 46 | 56 | 11 | 28 | 17 | 8 | 117 | 22 | 45 | 112 |
| 1888..... | 1 | 4 | 146 | 10 | 53 | 101 | 25 | 58 | 21 | 10 | 121 | 21 | 52 | 113 |
| 1889..... | 2 | 1 | 112 | 17 | 71 | 89 | 23 | 53 | 21 | 11 | 111 | 21 | 53 | 113 |
| 1890..... | 1 | 1 | 112 | 17 | 23 | 23 | 4 | 45 | 17 | 7 | 111 | 21 | 53 | 113 |
| 1891..... | 1 | 1 | 112 | 17 | 112 | 106 | 24 | 45 | 17 | 8 | 111 | 21 | 53 | 113 |
| 1892..... | 1 | 1 | 112 | 17 | 4 | 112 | 106 | 24 | 17 | 11 | 111 | 21 | 53 | 113 |
| 1893..... | 1 | 1 | 112 | 17 | 112 | 106 | 24 | 45 | 17 | 8 | 111 | 21 | 53 | 113 |
| 1894..... | 179 | 8 | 112 | 17 | 112 | 106 | 24 | 45 | 17 | 8 | 111 | 21 | 53 | 113 |
| 1895..... | 1 | 1 | 112 | 17 | 112 | 106 | 24 | 45 | 17 | 8 | 111 | 21 | 53 | 113 |
| 1896..... | 1 | 1 | 46 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| Total..... | 284 | 122 | 1121 | 102 | 1121 | 1021 | 1121 | 1021 | 1121 | 1021 | 1121 | 1021 | 1121 | 1021 |
| Mean..... | 28.4 | 12.2 | 112.1 | 10.2 | 112.1 | 102.1 | 112.1 | 102.1 | 112.1 | 102.1 | 112.1 | 102.1 | 112.1 | 102.1 |

By a reference to the above table it may be seen that measles, which in the winter of 1887-88, became so prevalent and caused such a large proportion of the deaths of the year, has nearly disappeared, having caused only three deaths during the year. Scarlet fever, though having apparently effected a permanent lodgment in this District, has been less fatal during the past year than for either of the three previous years and caused only one-half of the mean annual number of deaths from this disease. Diphtheria was at or a little above the average, while croup was only about one-half as fatal as usual. Typhoid fever has been above the mean for the last two years, while the returns from typho-malarial fever have gradually decreased during the past four years. The death-rate from the fevers classed as malarial has been lower than at any time during the past ten years.

Though called several times to see cases which presented some of the early symptoms of small-pox, in no instance did the diagnosis remain long in doubt, nor was there a case which developed that dreaded malady. There was not a single case of cholera, yellow fever, or typhus fever reported during the year.

I have suggested premises where deaths have occurred from zymotic diseases, with a view to ascertain the origin of the contagion and to instruct the occupants in regard

to disinfection, in seventy-six cases; have also investigated as to the cause of death of seventy-three persons dying without a physician in attendance, giving certificates in thirty-four instances and referring the other thirty-nine cases to the coroner. Fourteen still-birth certificates for white infants and sixty-nine for colored still-born infants have also been furnished. Seventeen cases have been referred by the police department for examination, and certificates have been given showing that applicants were proper subjects for treatment in the various hospitals, and three cases have been in the police court cells.

Very respectfully, your obedient servant,

BEN. G. POOL, M. D.,
Medical Sanitary Inspector.

SMITH TOWNSHEND, M. D.,
Health Officer, District of Columbia.

THE SUBURBS.

My last annual report contained a somewhat extended report upon the sanitary condition of several of the more densely populated suburbs of Washington, giving diagrams, &c.

In that report, numerous sources of soil pollution were pointed out, and I am glad to be able to report that in a majority of instances the proper remedy has been applied.

I also called attention to the question of the effect of crowded cemeteries upon the public health, as incidental to the question of suburban sanitary conditions, and touched upon the idea of cremation. These subjects, however, have not been given the proper study as yet necessary to a fitting report thereon.

THE INSPECTOR OF PLUMBING.

The following report of the inspector of plumbing will be read with interest. The plumbing regulations, which went into effect under authority of law in the year 1881 in this city, were the first regulations of their kind enforced by any municipality in the known world.

The department feels quite a pride in this child of its labors, and the work it has accomplished already bears evidence of the value of such service.

I cordially indorse the request of the inspector for an increase in the salary of his assistant, as also for a clerk in the office. Clerical assistance is absolutely necessary in order that proper records of the work done may be secured. In this connection I would invite attention to what was said on this subject in my report of last year.

The report on school buildings in my report for 1879 will be of interest in connection with what is said by the inspector in his report.

REPORT OF THE INSPECTOR OF PLUMBING.

SIR: I have the honor to submit the following report of the duties performed by me during the fiscal year ending June 30, 1880, and to make such recommendations and remarks as may be conducive to the public interest.

It is gratifying to report that the statistics of my office show twenty-seven hundred and seventy-three inspections of plumbing work in houses in course of erection, and one hundred and twenty-five inspections of houses draining into alleys having water-closet and hydrant in yard, which indicate the rapid growth of the city, and suggests that the great demand for new houses comes from the fact of their superiority in sanitary construction over old houses. The inspections in old houses number two hundred and forty-eight, which testifies to the lively anxiety felt by the general public about the condition of their houses.

To satisfy myself in regard to the dangerous condition of many of the old houses in this city, where terra-cotta pipe still exists under the floor, and where there is no ventilation for the drains or traps of fixtures, I secured an analysis of the air in one

MEDICAL SANITARY INSPECTION.

The report of the medical sanitary inspector is presented herewith. This labor, which is mainly the ascertainment as to whether or not there exists local cause for the disease where fatal cases of zymotic disease has occurred, is of a very important character. The inspector, however, owing to the limited force of the department, is called upon, in addition, to superintend the compilation of the tables of vital statistics, and to give professional services in several other ways. The salary paid him, \$1,200 per annum, is not just compensation for the services rendered, and I hope an increase of \$200 or \$300 can be secured.

REPORT OF THE MEDICAL SANITARY INSPECTOR.

SIR: I have the honor of presenting to you the following report of the duties performed by me as medical sanitary inspector, in addition to my work in connection with the preparation of vital statistics, during the year ending June 30, 1886.

The year has been comparatively uneventful, from a sanitary point of view, the total death-rate having been below the mean annual rate for the past eleven years, and the leading contagious diseases noticeable for their absence or small mortality.

The following table shows the deaths from measles, scarlet fever, diphtheria, croup, typhoid fever, typho-malarial fever, and malarial fevers during the past ten years:

Table showing the comparative mortality from measles, scarlet fever, diphtheria, croup, typhoid fever, typho-malarial fever, and malarial fevers during the ten years ending June 30, 1886.

| Year. | Measles. | | | Scarlet fever. | | | Diphtheria. | | | Croup. | | | Typhoid fever. | | | Typho-malarial fever. | | | Malarial fever. | | |
|------------|---------------|--------|----------|----------------|--------|----------|---------------|--------|----------|---------------|--------|----------|----------------|--------|----------|-----------------------|--------|----------|-----------------|--------|----------|
| | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. |
| 1877 | 11 | 7 | 4 | 120 | 105 | 15 | 49 | 38 | 11 | 39 | 31 | 8 | 82 | 54 | 28 | 46 | 32 | 14 | 52 | 23 | 29 |
| 1878 | 7 | 2 | 5 | 146 | 107 | 39 | 140 | 101 | 39 | 56 | 35 | 21 | 101 | 67 | 34 | 31 | 21 | 10 | 55 | 28 | 27 |
| 1879 | 10 | 7 | 3 | 129 | 117 | 12 | 79 | 60 | 19 | 50 | 34 | 16 | 74 | 45 | 29 | 25 | 12 | 13 | 53 | 26 | 27 |
| 1880 | 1 | 1 | 0 | 23 | 21 | 2 | 29 | 23 | 6 | 45 | 27 | 18 | 84 | 43 | 41 | 20 | 14 | 6 | 48 | 21 | 27 |
| 1881 | 8 | 6 | 2 | 26 | 25 | 1 | 124 | 106 | 18 | 69 | 64 | 25 | 67 | 44 | 23 | 31 | 17 | 14 | 99 | 41 | 58 |
| 1882 | 2 | 1 | 1 | 35 | 31 | 4 | 116 | 82 | 34 | 55 | 38 | 17 | 120 | 74 | 46 | 44 | 20 | 18 | 112 | 55 | 57 |
| 1883 | 6 | 5 | 1 | 125 | 106 | 19 | 85 | 63 | 22 | 24 | 20 | 4 | 92 | 49 | 43 | 38 | 15 | 23 | 93 | 51 | 42 |
| 1884 | 179 | 83 | 96 | 168 | 133 | 35 | 42 | 35 | 7 | 38 | 25 | 13 | 76 | 53 | 23 | 34 | 20 | 14 | 66 | 33 | 33 |
| 1885 | 9 | 2 | 7 | 137 | 113 | 24 | 77 | 53 | 24 | 42 | 31 | 11 | 124 | 83 | 41 | 30 | 16 | 14 | 78 | 43 | 35 |
| 1886 | 3 | 2 | 1 | 48 | 33 | 15 | 88 | 49 | 39 | 26 | 12 | 14 | 128 | 81 | 47 | 17 | 8 | 9 | 54 | 33 | 21 |
| Total. | 238 | 115 | 121 | 962 | 791 | 171 | 829 | 610 | 219 | 464 | 317 | 147 | 948 | 593 | 355 | 316 | 181 | 135 | 710 | 354 | 356 |
| Mean. | 23.8 | 11.5 | 12.1 | 96.2 | 79.1 | 17.1 | 82.9 | 61.0 | 21.9 | 46.4 | 31.7 | 14.7 | 94.8 | 59.3 | 35.5 | 31.6 | 18.1 | 13.5 | 71.0 | 35.4 | 35.6 |

By a reference to the above table it may be seen that measles, which in the winter of 1883-'84, became so prevalent and caused such a large proportion of the deaths of the year, has nearly disappeared, having caused only three deaths during the year. Scarlet fever, though having apparently effected a permanent lodgment in this District, has been less fatal during the past year than for either of the three previous years and caused only one-half of the mean annual number of deaths from this disease. Diphtheria was at, or a little above, the average, while croup was only about one-half as fatal as usual. Typhoid fever has been above the mean for the last two years, while the returns from typho-malarial fever have gradually decreased during the past four years. The death-rate from the fevers classed as malarial has been lower than at any time during the past ten years.

Though called several times to see cases which presented some of the early symptoms of small-pox, in no instance did the diagnosis remain long in doubt, nor was there a case which developed that dreaded malady. There was not a single case of cholera, yellow fever, or typhus fever reported during the year.

I have inspected premises where deaths have occurred from zymotic diseases, with a view to ascertain the origin of the contagion and to instruct the occupants in regard

to disinfection, in seventy-six cases; have also investigated as to the cause of death of seventy-three persons dying without a physician in attendance, giving certificates in thirty-four instances and referring the other thirty-nine cases to the coroner. Fourteen still-birth certificates for white infants and sixty-nine for colored still-born infants have also been furnished. Seventeen cases have been referred by the police department for examination, and certificates have been given showing that applicants were proper subjects for treatment in the various hospitals, and three cases have been in the police court cells.

Very respectfully, your obedient servant,

BEN. G. POOL, M. D.,
Medical Sanitary Inspector.

SMITH TOWNSHEND, M. D.,
Health Officer, District of Columbia.

THE SUBURBS.

My last annual report contained a somewhat extended report upon the sanitary condition of several of the more densely populated suburbs of Washington, giving diagrams, &c.

In that report, numerous sources of soil pollution were pointed out, and I am glad to be able to report that in a majority of instances the proper remedy has been applied.

I also called attention to the question of the effect of crowded cemeteries upon the public health, as incidental to the question of suburban sanitary conditions, and touched upon the idea of cremation. These subjects, however, have not been given the proper study as yet necessary to a fitting report thereon.

THE INSPECTOR OF PLUMBING.

The following report of the inspector of plumbing will be read with interest. The plumbing regulations, which went into effect under authority of law in the year 1881 in this city, were the first regulations of their kind enforced by any municipality in the known world.

The department feels quite a pride in this child of its labors, and the work it has accomplished already bears evidence of the value of such service.

I cordially indorse the request of the inspector for an increase in the salary of his assistant, as also for a clerk in the office. Clerical assistance is absolutely necessary in order that proper records of the work done may be secured. In this connection I would invite attention to what was said on this subject in my report of last year.

The report on school buildings in my report for 1879 will be of interest in connection with what is said by the inspector in his report.

REPORT OF THE INSPECTOR OF PLUMBING.

SIR: I have the honor to submit the following report of the duties performed by me during the fiscal year ending June 30, 1880, and to make such recommendations and remarks as may be conducive to the public interest.

It is gratifying to report that the statistics of my office show twenty-seven hundred and seventy-three inspections of plumbing work in houses in course of erection, and one hundred and twenty-five inspections of houses draining into alleys having water-closet and hydrant in yard, which indicate the rapid growth of the city, and suggests that the great demand for new houses comes from the fact of their superiority in sanitary construction over old houses. The inspections in old houses number two hundred and forty-eight, which testifies to the lively anxiety felt by the general public about the condition of their houses.

To satisfy myself in regard to the dangerous condition of many of the old houses in this city, where terra-cotta pipe still exists under the floor, and where there is no ventilation for the drains or traps of fixtures, I secured an analysis of the air in one

of the best houses built about fifteen years ago, and herewith inclose the same. This house has bath-rooms on the second and third floors, with stationary wash-basins in the bed-rooms. I found all the plumbing fixtures in the house trapped, but no extension of the soil or waste pipes above the roof, and no ventilation of the traps of the fixtures. Few householders know the dangers to which they are exposed in occupying such houses, and the public will not be safe until landlords and agents are held responsible before the law and prosecuted for their criminal negligence. I have made a thorough inspection of all the public-school buildings in the District. As a detailed statement of their condition would occupy too much space, I will only mention a few to convey some idea of the existing defects and the importance of additional appropriations for the reconstruction of the drainage system of the old school-houses, erected before the regulations governing such work were in operation here.

The Peabody, corner of Fifth and C northeast, was erected in 1879. There is a faulty arrangement of soil and waste pipes throughout this building, and an entire absence of ventilation, and the danger is aggravated by the defects in the plumbing fixtures. There were formerly Demarest water-closets and wash basins on the first, second, and third floors, above the basement, for the use of teachers, but at present this unhealthy condition is only allowed to exist on the first floor, the others having been cut off and the outlets closed. As the soil-pipe only extends to the third floor, and the traps of these fixtures are not ventilated, they are siphoned at every discharge of the water from the bowl of the closet. There is a sink and hopper water-closet in furnace-room, both having defective connections and no ventilation, the waste of the former being of three-fourth inch black iron pipe. If such ignorance and criminal carelessness was practiced in the construction of the work described above, is it not reasonable to suppose that all the drain-pipes hidden from view are equally faulty and defective? The water-closets and urinals for the use of the children are also without ventilation, although having the appearance of being more recently constructed.

With a proper system of ventilation, and the old closet replaced by one of more modern construction, this one fixture may be permitted to remain in the building with safety, but all other plumbing fixtures, together with the terra-cotta drains under the floor, should be removed, and suitable accommodations for all the inmates of the building located in the yard.

The Cranch, corner of Twelfth and G southeast, was erected in 1872.

There are, perhaps, more serious objections to the construction of the drainage system of this building than any other where the plumbing fixtures are inside of the house. All the connections with the terra-cotta drains under the floor are badly made, and there is no protection against impurities arising from the soil saturation, from ground air, or dampness. The plank floor of the play-room is much decayed, without even a layer of asphalt to protect it from the earth. The privy sinks and urinals for the use of the children are constructed of wood lined with zinc, and so worn as to admit of foul matter accumulating between the lining and wood; and as the apartments in which these fixtures are located adjoin the play-room, the existing evils may be considered still more alarming and dangerous. An entire reconstruction of the drainage system of this building is absolutely necessary, and the basement should be put in a good sanitary condition by a free use of cement concrete.

The Wallach, erected in 1864, on Pennsylvania avenue between Seventh and Eighth southeast, has a separate brick apartment, closely connected with the school building, in which the privy sinks for the use of the children are located, and with the exception of the urinals, necessarily offensive by reason of their construction, seem to be kept in very good order. All the plumbing fixtures inside of this building are defective as to character, construction, and ventilation, and the area traps give no protection against odors and gases from the public sewer, the main drain of the house not being provided with a running-trap and a fresh-air inlet. On the first floor there are four sinks connected with one trap, and in every case putty and cement used in making the joints, also a very old, defective, and filthy iron hopper closet for the use of the janitor and male teachers on the same floor. Black iron pipe has been used for the water supply throughout this building, and the flow of water has been retarded by reason of the rust in the pipes. With the exception of one faucet for drinking water, every plumbing fixture should be removed from this school building, and thus the terra-cotta drains under the floor could be abandoned.

This tells the story of the deplorable condition of most of the old school buildings and the necessity for an early appropriation for their reconstruction.

In the new school buildings erected since 1883 the plumbing and drainage has been made to conform to the regulations of this department, and are generally in a good sanitary condition.

For all plumbing fixtures and for the floors about them, it may, at times, become necessary to use disinfectants. I therefore suggest that the janitors be supplied with sulphate of iron or copperas, or, what is best, a diluted solution of bi-chloride of mercury, with instructions how to use it, as both of these disinfectants should be followed by a large quantity of water, to prevent a chemical action in the waste-pipes and traps.

The limited appropriations heretofore allowed by Congress have hardly been sufficient to make the most necessary repairs or keep the school buildings in a habitable condition, and to prevent the plumbing fixtures from becoming utterly useless. The inspector of buildings has been powerless to make alterations and to have the old work conform to improved methods, and the rules of this department; it has been difficult for him even to stop leaks and to make the most necessary repairs. A special appropriation of not less than \$15,000 will be required to put the old school-houses in a proper sanitary condition.

A retrospection shows a marked change in the public sentiment, upon matters of sanitation, within the period of the operations of this office. Years ago, when, after much public and private agitation, and hard work on the part of a few zealous friends of the cause, this office was established and clothed with the rules, which were enforced here for the first time in any municipality, and have since been the foundation for many other cities.

The apathy of the community at that time, upon the subject of our jurisdiction, was general and profound. Then we were met with opposition from a large part of the journeymen and employing plumbers, as well as builders and landlords, and cunning tricks to avoid the expense of doing things now generally admitted essential were of common occurrence. The persistency with which some employing plumbers opposed, step by step, every effort of this office is remarkable considering that they are the parties most directly benefited. The standard of comfort has been materially elevated since then. On the part of tenants indifference has given way to the greatest solicitude, and it is gratifying to know that renters now frequently find out the plumber who did the work, and inquire as to his character, and search with great care for the reputation of a house they intend to occupy. Then a tenant was satisfied if the slops disappeared when thrown into the sink, and cared not if the soil was saturated with putrifying sewage from disjointed drains; now the removal to the public sewer must be rapid and absolute. Then the waste pipe from kitchen sink might be untrapped and with open joints exuding greasy accumulations which befouled the atmosphere of the kitchen without protest or comment; now the sink waste must be properly laid to prevent greasy accumulations, the traps must be in place and securely ventilated. Then the sink itself might be a foul receptacle boxed in and about with decaying wood, which might conceal the accumulating nastiness of an untidy servant without suspicion of any uncleanliness; now the kitchen sink must be a neat and shapely fixture, with its surroundings open to all beholders. Then the laundry tubs might be of soft and porous wood, saturated with filth or disease germs, loathsome to sight and smell, the vehicle for contagion, without objection on the part of the indifferent tenant or helpless lodger. How many helpless children have been sacrificed through the spread of disease by wooden wash-trays; now this fixture must be absolutely impervious and as open as the day. Then the water-closet might be nauseating with accumulated filth, and placed in dark unventilated rooms, the bath-tub might be untrapped and the basin disgusting in all its ways. No complaint would be made so long as these were securely boxed in, and the waste matter did not run through the ceiling below. Now the closet must have no concealed surface to be polluted, the bath and basin must be trapped and ventilated, the spaces about must be open to inspection, and the room must have open air ventilation and ample light. Then the drains might begin at the fixture and terminate anywhere. Now the connection with the public sewer must be isolated from the dwelling, with the running trap and vent opening, and open end above the roof, and through all its course the skillful hand of a master workman must give assurance of absolute protection in every joint. The profession of healing does not occupy a more important place in the economy of domestic life than the trade of plumbing, and its avenues should be guarded from the operations of the both and the scamp with the greatest solicitude.

For several years I have repeated my recommendations for greater safeguards in the matter of registration, and I must here renew them.

During the past year I have, by request, made inspections of several of the Department buildings of the General Government. To attempt a description of the conditions found there would be considered sensational, and I must hope that Congress may enact such legislation as will place all Departmental buildings, as well as all hotels, boarding, and lodging houses, under the restrictions of the rules of this office. At present persons not specially trained in matters of sanitation are placed in absolute control of public buildings, where they are met with problems the solution of which requires extensive practical information, to prevent the waste of the public money and to protect the public health. Most of the Department buildings, and many hotels employ workmen who may be a steam-fitter, blacksmith, or jack-of-all-trades, and to them is given the work of repairing steam, gas, and water pipes, where their incompetency may do no harm; but they are also permitted to tamper with the drains, to cut into and patch up as they choose, regardless of all established rules, with the result that most of the Department buildings are deplorably defective, and if the hotels are in a better condition, it is by chance and not owing to restrictions of legislation.

472 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

During the season of the greatest activity in building operations, both myself and my assistant, Mr. John L. Shedd, are very much hurried to meet the demands for inspections, and I must recognize his zeal, activity, and willingness. Again I ask that his compensation be made at least equal to the other inspectors of the health department.

Three years ago, to accommodate public business, my office was located adjacent to that of the inspector of buildings, an arrangement which is satisfactory to all, as our official relations have always been cordial. The officers of the engineer department have given me aid and information whenever required, and the honorable Commissioners have always supported my official actions, for which I gladly make acknowledgment.

Very respectfully, your obedient servant,

SAMUEL A. ROBINSON,
Inspector of Plumbing.

SMITH TOWNSEND, M. D.
Health Officer, D. C.

ANALYSIS OF AIR.

Analysis of the air for organic matter, in a room having a stationary wash-basin trapped but not ventilated, in a house built in 1872, as a first-class dwelling, where the plumbing work is apparently in good order, but executed in accordance with the methods of that day, without ventilation for the sewer, soil-pipe, and traps of plumbing fixtures.

Result of the analysis of this condensed moisture (water): Free ammonia, 0.95 milligrams per liter, parts per million; albuminoid ammonia, 1.35 milligrams per liter, parts per million.

The condensed moisture was also tested by the gelatine test, which proved it to be putrescible after twenty-four hours.

The microscopic examination showed the existence of germs and bacteria in the condensed moisture.

The enormous percentage of organic matter and the other tests and examinations indicate the emanation of sewer gas in this room. The necessity of having plumbing based on scientific principles and its thorough ventilation is hereby demonstrated.

E. J. DESMETS,
Chemist.

ENGINEER DEPARTMENT, LABORATORY OF THE CHEMIST,
November 4, 1886.

LAWS, ORDINANCES, AND REGULATIONS RELATING TO THE PUBLIC HEALTH.

I have collected together and present as an appendix to this report all the laws, ordinances, and regulations relating to the public health now in force in the District. They are arranged in regular order, and will prove convenient for reference.

VITAL STATISTICS.

The statistical tables and maps found in the appendix to this report present the usual varied and extensive data respecting births, marriages, and deaths occurring in the District of Columbia during the year.

There are now on file in this office 111,712 original certificates, divided as follows: 52,346 certificates of death; 43,483 certificates of birth; 9,364 certificates of marriage; 4,475 certificates of still-birth, and 2,044 certificates of persons dying beyond the limits of the District and brought here for interment.

Of these certificates there are 87,248 preserved in bound volumes of 250 certificates each, the others packed in file-cases.

The entire number are properly recorded and indexed for ready reference. This mass of original papers and valuable records are in a building without any proper protection against fire, and provision should be made at the earliest possible moment for their storage in fire-proof vaults.

Table 1, which shows the total deaths occurring in the District arranged by classes, orders, sex, color, months, quarters, ages, nativity &c., has been published in uniform manner for twelve years and should prove of value to the student of vital statistics.

Table 10 has now been published uniformly for seven consecutive years, showing the daily mortality divided under nineteen heads, classified by color, different diseases, and ages, together with the daily meteorological conditions, divided under twenty-one heads. This table should prove invaluable in the study of the relations between atmospheric conditions and disease.

DEATHS.

Four thousand six hundred and seventy-four deaths occurred in the District of Columbia during the year ending June 30, 1886, of which number 1,302 were white males, 1,130 white females, 1,077 colored males, and 1,155 colored females. This gives an annual death-rate of 17.96 per 1,000 per annum for the whites, 32.35 for the colored, and 22.80 for the total population.

The population of the District of Columbia on January 1, 1886, is estimated at 205,000 souls (136,000 white and 69,000 colored). This estimate is determined by the annual percentage of increase shown by the census of 1880, and by the police census of 1885.

The mortality for the past year, by color, sex, and class of disease, and the comparative number of deaths, comparative death-rates, and estimated population for the past eleven years, are all given in statements A, B, and C, which appear together with such comments as are necessary to point out the more important facts contained therein, in the opening pages of this report.

The tables and maps, prepared in general accordance with those of former years, set forth in minute detail many of the principal facts relating to the *movement* of the population.

Table 1 exhibits the causes of death arranged according to classes, orders, and specific names, and by following each disease across the table one may see at a glance the per cent. of each cause to the total mortality; the death-rate per 1,000 inhabitants, white and colored; the total by sex and color, age, social relation, and nativity of decedents.

I.—ZYMOTIC DISEASES.

These comprise diseases which are epidemic, endemic, communicable, inoculable, capable of propagation from existing foci, or of generation; induced by a specific material or poison, or by the want or bad quality of food. This class includes four orders, miasmatic, enthetic, dietetic, and parasitic diseases, and comprises most of those maladies which at present are considered to come within the special province of preventative medicine. Nine hundred and fifteen deaths, or less than 20 per cent. of the total mortality, fell in this class. This, as compared with the 1,165 deaths which occurred in this class last year, shows not only an improvement in actual numbers, but also a decrease in the ratio to the total mortality of 3.73 per cent. The death-rate of the whites from zymotic diseases was 3.54 per 1,000 per annum, and of the colored population 6.29.

Nearly 23 per cent. (22.84) of the deaths of this class occurred in the month of July. The principal causes of death were as follows: Scarlet fever, 48, a decrease of 89 from last year and only one half of the mean annual number for the past ten years; typhoid fever, 128,

an increase of 4 from 1885; typho-malarial fever, 17, a decrease of 13. The various malarial fevers, including congestive, intermittent, and remittent fevers, caused 54 deaths, a decrease of 24. Diphtheria, which prevailed quite extensively during the fall and winter, caused 88 deaths. Croup and whooping-cough were also present, the former terminating fatally in 26 instances and the latter in 63 cases. The diseases commonly classed as diarrheal, although not so fatal as last year, having caused 325 deaths as compared with 399 in 1885, yet furnished over 35 per cent. (35.52) of the zymotic class of diseases. Over 43 per cent. (43.38) of the deaths from diarrheal diseases occurred in the month of July, and 70 per cent. of the fatal cases were of children under one year of age. To the different varieties of syphilis are ascribed 26 deaths; the dietic order claimed 107 victims and the parasitic order follows with 6 deaths.

II.—CONSTITUTIONAL DISEASES.

Constitutional diseases caused 1,185 deaths, or 25.37 per cent. of the total mortality. The decedents were 286 white males, 281 white females, 280 colored males, and 238 colored females. The annual death-rate of the white population from this class of diseases was 4.17 per 1,000 per annum; that of the colored 8.96. Cancers caused 191 deaths (white, 78; colored, 23). The uterus, breast, and stomach were the organs most frequently affected, furnishing 26, 17, and 13 deaths, respectively. Tables have been prepared which illustrate in detail the principal facts relating to all the deaths from cancer since September, 1874.

Consumption, as usual, is the disease which caused the greatest number of deaths during the year, 796 deaths, or 17.03 per cent. of the total mortality, being attributed to this disease alone. Of this number 354 were white and 442 were colored. The death-rate from this disease was 2.60 per 1,000 per annum for the whites and 6.41 for the colored population. Of the decedents from consumption, 49 were under five years of age and 24 were over seventy years of age. One hundred and thirty-seven were white natives of the District, 150 were colored natives, 440 natives of other parts of the United States, 68 were of foreign birth, and 1 of unknown nativity. The white natives dying from this cause furnish only 2.97 per cent. of the total mortality; the colored natives, 3.21; natives of other parts of the United States, 9.41, and those of foreign birth, 1.45 per cent.

III.—LOCAL DISEASES.

Under this class there are eight orders, corresponding with the different organs of the body. Under the first order, that of the nervous system, there appeared 638 deaths, divided as follows, as to race and sex: Two hundred and twenty-eight white males, 133 white females, 132 colored males, and 145 colored females. Under specific causes of death in this order, we have to note: apoplexy, 125; insanity, 101; congestion of the brain, 52; convulsions, 110; trismus nascentium, 56.

Under the circulatory order we have 254 deaths. The principal specific causes in this order are diseases of the heart, and these foot up 233. From diseases of the respiratory organs there were 505 deaths. The three principal diseases of this order were pneumonia, bronchitis, and congestion of the lungs. From these diseases there were 200 white and 263 colored deaths.

From diseases of the digestive organs there were 333 deaths. Of these dentition claimed 75; gastritis, 37; gastro-enteritis, 32; enteritis, 40; peritonitis, 23, and diseases of the liver, 46. Diseases of the uri-

nary organs, 136. Diseases of the generative organs, 18; all females. Other diseases affecting special parts, 21.

IV.—DEVELOPMENTAL DISEASES.

The number of deaths registered under this class is 466, 238 white and 228 colored. Two hundred and nineteen infants are found in this class who died from congenital defects or from some of the complications of labor, and 54 women who died from diseases or accidents due to the puerperal state. There were also in this class 182 deaths attributed to old age and senile gangrene, 95 white and 87 colored.

V.—VIOLENCE.

Under this class are arranged 203 deaths, or 4.34 per cent. of the total mortality, 102 white and 101 colored. Of this number 142 were due to accidents or negligence; there were 3 judicial executions, 38 homicides, 17 suicides, and 3 deaths attributed to wounds received during the late civil war. The list of accident presents the usual variety seen from year to year, falling as usual more heavily on the colored race, and causing a death-rate of 1.07 per 1,000 per annum, while the whites found in this order furnish a rate of only .50 per 1,000 per annum. The 3 persons executed were all males, two white and one colored. Of the 20 infanticides, 3 are attributed to strangulation and 17 to neglect; 5 were white and 15 were colored infants.

The suicides are divided as follows, as to cause of death: Pistol-shot wounds, 6; incised wound of throat, 3; by drowning, 2; by hanging, 2; and the following drugs were selected in one instance each, arsenic, morphine, narcotic poison, and cyanide of potash. Divided as to color, there were 14 white and 3 colored; as to sex, 15 males and 2 females.

Following Table I are tables showing location of deaths; deaths under one year of age arranged monthly; deaths of children under five years of age; from the principal diseases of children; number dying over seventy years of age; the average age of decedents dying from eighteen different diseases, and from suicide; deaths in hospitals; average ages by sex and color; number buried in the various cemeteries, and a table showing the daily and monthly mortality from all causes and the principal prevailing diseases, together with a daily and monthly summary of the meteorological observations taken at the office of the Chief Signal Officer of the Army during the fiscal year, and other statements which are amplifications of those and comparisons with former years.

BIRTHS.

Of the 3,522 births reported, 1,012 were white males, 973 white females, 768 colored males, and 769 colored females.

Of the 411 bastards, 57 were white and 354 colored. Of the 1,985 white children, 1,093 were certified by physicians, while of the 1,537 colored births only 339 were returned by registered physicians, and even of this small proportion 175 came from the various public institutions.

STILL-BIRTHS.

Certificates of 421 still-births have been placed on file during the year, which gives a per cent. of 10.68 to the total number of births. Of the still-births, 169 were white and 252 were colored.

Of the whites, 91.7 per cent. were legitimate and 8.3 per cent. were illegitimate; of the colored, 49.2 per cent. were legitimate and 50.8 per cent. were illegitimate.

MARRIAGES.

There were 935 marriages reported; 676 between white parties, 255 between colored parties, and there were 4 mixed marriages.

Tables have also been prepared which show in detail the various facts in relation to the births, still-births, and marriages.

ADDITION TO THE LIBRARY.

The following-named works, reports, and papers have been added to our library during the year:

- Charter and Ordinances of the Board of Health of Buffalo, N. Y.
- Reports of Proceedings of Quarterly Meeting of the Illinois Board of Health, October 29, 30, 1885.
- Annual Report of the City of Augusta, Including the Ninth Annual Report of the Board of Health for the year 1884.
- Report of the Board of Health of Alabama for the years 1883 and 1884.
- Address of the State Board of Health and Vital Statistics of Pennsylvania, 1885.
- Organization and Initial Work of the Davidson County Board of Health, Tennessee, see.
- Report on Small-pox and Jail of Davidson County, Tennessee, 1884.
- Disinfection of Rags; Communication of the Health Officer of the Port of New York to the New York City Board of Health, in Relation to Disinfection of Foreign Rags.
- Annual Report of the Chief of the Bureau of Statistics on the Foreign Commerce of the United States for the year ending June 30, 1885.
- Hints on Digestion.
- National Conference of State Boards of Health, 1884.
- Report of the Secretary of the Interior for the year ending June 30, 1885.
- Preliminary Organization, Ninth International Medical Congress, to be held in Washington, D. C., in September, 1887.
- Twenty-third Annual Report of Providence Hospital, 1886.
- An Abstract of the Proceedings of the National Conference of the State Boards of Health, 1885.
- Sixth Annual Report of the State Board of Health, Lunacy, and Charity of Massachusetts, 1885.
- Sanitary Engineering by William Cain, C. E., North Carolina State Board of Health.
- Annual Report of the Supervising Surgeon-General of the Marine Hospital Service of the United States, 1885.
- An Essay on the Heating and Ventilation of Public Buildings.
- Transactions of the Medical and Chirurgical Faculty of the State of Maryland, held at Baltimore, Md., May, 1885.
- Report of Proceedings of the Illinois State Board of Health, Annual Meeting, Springfield, January 21-22, 1886.
- Nineteenth Annual Report of the Columbia Hospital for Women and Lying-in-Asylum, 1885.
- Causes of the Insalubrity of New Orleans, by W. H. Watkins, M. D.
- Sixteenth Annual Report of the Board of Trustees of the Reform School of the District of Columbia, 1885.
- Fifteenth Annual Report of the Board of Directors of the Children's Hospital of the District of Columbia, 1885.
- Fisheries Industries of the United States.
- Twelfth Annual Report of the State Board of Health of Michigan, for the year ending September 30, 1884.
- Annual Report of the Health Department, City of Baltimore, Md., December 31, 1885.
- Charter, Ordinances, and Rules, relating to the Board of Health and Registration of Vital Statistics of the City of Denver, Colo.
- Seventh Annual Report of the State Board of Health of Illinois.
- Seventh Annual Report of the Board of Health of Memphis, 1885.
- Seventh Annual Report of the Board of Health of the City of Atlanta, for the year 1885.

- Annual Report of the Health Officer of Burlington, Vt., January 1, 1886.
 Twenty-third Report of the Directors of the Maryland Institution for the Instruction of the Blind, June 30, 1885.
 Annual Report of the Board of Health of Indianapolis, Ind., 1885.
 Official Register of Physicians and Midwives to whom Certificates have been issued by the Board of Health of Illinois, 1877-'86
 Charter and Ordinances Relating to the Board of Health of the City of Buffalo, N. Y., 1885.
 Report of the Board of Health of the City Council of the City of Salem, Mass., 1885.
 Fourth Annual Report of the Garfield Memorial Hospital, 1886.
 Annual Report of the Health Department of the City of Saint Paul, for the year ending October 31, 1885.
 Report of the State Board of Health of the State of Alabama for the years 1833 and 1884.
 Fourteenth Annual Report of the Board of Health of the City of Boston, Mass., 1885.
 Bulletin of the United States Fish Commission, volume 5, 1885.
 Report of the Board of Health of the City of Reading, Pa., 1885.
 Report of the State Board of Health of Connecticut, 1885.
 First Annual Report of the State Board of Health of Kansas, April 10, 1885, to December 31, 1885.
 Annual Report of the Intendent of the Washington Asylum of the District of Columbia for the year 1885.
 Dokument No. 21, Beretning om Folkemaengden og Sundhedsstilstanden i Christiania i Aaret 1884.
 Twelfth Annual Report of the Secretary of the Board of Health and Registrar of Vital Statistics of Knoxville, Tenn., 1885.
 Annual Report of the Board of Health of Newark, N. J., 1885.
 Annual Report of the Board of Health of Fall River, Mass., 1885.
 Third Annual Report of the Superintendent of Health of the City of Providence, 1885.
 Annual Report of the Board of Health of the City of Cambridge, Mass., year ending December 31, 1885.
 Thirteenth Annual Report of the Board of Health of the City of New Haven, Conn., 1885.
 Nineteenth Annual Report of the Health Department of Cincinnati, Ohio, 1885.
 Ninth Report of the State Board of Health of Wisconsin, 1885.
 Report on a Water Supply for the City of Memphis, February 23, 1886.
 First Annual Report of the Board of Health of Hartford, Conn., March, 1886.
 Annual Report of the Clerk of the Board of Health of Kansas, Mo., to the Common Council, January 1, 1886.
 Health Office and Mortuary Report of Savannah, Ga., 1885.
 Smithsonian Report for 1884.
 Report of the National Board of Health, 1885.
 Results of Inquiries as to Quality of Milk Produced by Massachusetts.
 Eight Annual Report of the Board of Health of Somerville, Mass., 1885.
 Biennial Report of the Board of Health of the State of Louisiana.
 Proceedings and addresses at the Sanitary Convention held at Howell, Mich., March 3-4, 1886.
 Proceeding and addresses at the Sanitary Convention held at Ypsilanti, Mich., June 30 and July 1, 1885.
 Annual Report of the Board of Health at the City of Richmond, Va., 1885.
 Fifth Annual Report of the State Board of Health of New York, 1885.
 Official Register of the United States, volumes 1 and 2, 1855.
 Proceedings of the Third Annual Meeting of the Ohio State Association.
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478 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

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Respectfully submitted.

SMITH TOWNSEND, M. D.,
Health Officer.

To the COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDICES
TO THE
REPORT
OF THE
HEALTH OFFICER
OF THE
DISTRICT OF COLUMBIA.

TABLE I.—Showing total number of deaths occurring in the District of Columbia, arranged by classes, sex, color, months, quarters, ages, nativity, &c., with percentages and death-rates, for the year ending June 30, 1886.

| Cause of death. | Total deaths from each cause. | Per cent. of each cause to total mortality. | DEATH-RATE. | | RECAPITULATION. | | | | | | | | | | | | 1885. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------------------------|---|-------------------------------|-------|-------------------------|-----|-----|-----|-----|-----|---------------|-----|-----|-----|-----|---------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | Deaths per 1,000 inhabitants. | | Total by color and sex. | | | | | | Total by sex. | | | | | | July. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | W. | C. | M. | F. | W. | C. | M. | F. | M. | F. | M. | F. | W. | August. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLASS I.—ZYMOTIC DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.—Miasmatic. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measles..... | 3 | .064 | .015 | .015 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | |
| Scarlet fever..... | 48 | 1.027 | .242 | .253 | 19 | 14 | 7 | 8 | 33 | 15 | 26 | 2 | 22 | 5 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | |
| Rubella..... | 2 | .043 | .007 | .030 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Rubella..... | 8 | .171 | .044 | .030 | 3 | 3 | 1 | 2 | 6 | 2 | 3 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Erysipelas..... | 1 | .021 | .007 | .000 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Eczema..... | 1 | .021 | .007 | .000 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Pemphigus..... | 1 | .021 | .007 | .000 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Typhoid fever..... | 128 | 2.739 | .596 | .705 | 46 | 35 | 24 | 23 | 81 | 47 | 70 | 58 | 8 | 4 | 4 | 3 | 2 | 7 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | | | | | | | | | | | | | | |
| Typho-malarial fever..... | 17 | .363 | .058 | .135 | 3 | 5 | 5 | 4 | 8 | 9 | 8 | 9 | 8 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Congestive fever..... | 8 | .171 | .037 | .045 | 2 | 3 | 2 | 2 | 1 | 5 | 3 | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Intermittent fever..... | 8 | .171 | .029 | .060 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Remittent fever..... | 20 | .428 | .096 | .105 | 6 | 7 | 3 | 4 | 13 | 7 | 9 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Malarial fever..... | 48 | .385 | .081 | .105 | 5 | 6 | 4 | 3 | 11 | 7 | 9 | 9 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Catarrhal fever..... | 1 | .021 | .004 | .000 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Dysentery..... | 88 | 1.853 | .357 | .263 | 27 | 22 | 21 | 18 | 49 | 39 | 48 | 40 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Dysentery..... | 26 | .566 | .087 | .203 | 10 | 2 | 5 | 9 | 12 | 14 | 15 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Tonsillitis..... | 2 | .043 | .015 | .015 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Whooping-cough..... | 63 | 1.348 | .125 | .667 | 7 | 10 | 21 | 25 | 17 | 46 | 28 | 35 | 1 | 1 | 3 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Mumps..... | 1 | .021 | .015 | .015 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Pyæmia..... | 2 | .043 | .015 | .015 | 2 | 2 | 1 | 1 | 4 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Septicæmia..... | 4 | .085 | .029 | .029 | 2 | 2 | 1 | 1 | 4 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Furunculosis..... | 1 | .021 | .015 | .015 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Cholera infantum..... | 159 | 3.403 | .627 | 1.017 | 37 | 49 | 36 | 37 | 86 | 73 | 73 | 86 | 16 | 25 | 21 | 21 | 5 | 9 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | | | | | | | | | | | | | | |
| Dysentery..... | 16 | .342 | .087 | .058 | 6 | 6 | 3 | 1 | 12 | 4 | 9 | 7 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Diarrhoea..... | 100 | 2.140 | .370 | .725 | 21 | 29 | 30 | 20 | 50 | 50 | 51 | 49 | 7 | 9 | 9 | 6 | 1 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | | | | | | | | | | | |
| Enterocolitis..... | 43 | .920 | .136 | .306 | 13 | 9 | 8 | 13 | 22 | 21 | 21 | 22 | 7 | 3 | 6 | 7 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Total miasmatic diseases..... | 776 | 16.606 | 3.126 | 5.074 | 216 | 210 | 175 | 175 | 426 | 350 | 391 | 385 | 46 | 51 | 45 | 48 | 17 | 33 | 31 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | | | | | | | | | |
| Order 2.—Enthetic. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Syphilis, congenital..... | 14 | .300 | .022 | .159 | 3 | ... | 7 | 4 | 3 | 11 | 10 | 4 | ... | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | | | | | | | | | | | | | | | | |
| secondary..... | 1 | .021 | .007 | .015 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | | | | | | | | | | | | | | | | |
| tertiary..... | 4 | .084 | .022 | .045 | 2 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | | | | | | | | | | | | | | | | |
| variety not stated..... | 7 | .151 | .029 | .044 | 3 | 1 | 1 | 2 | 4 | 3 | 4 | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | | | | | | | | | | | | | | | | |
| Total enthetic diseases..... | 26 | .556 | .080 | .218 | 9 | 2 | 8 | 7 | 11 | 15 | 17 | 9 | ... | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | | | | | | | | | | | | | | | | |

Order 3.—*Dietic.*

| | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-----|--------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|
| Inanition..... | 84 | 1.798 | .176 | .870 | 14 | 10 | 31 | 29 | 24 | 60 | 45 | 39 | 5 | 1 | 4 | 4 | 1 | 2 | 3 | 3 |
| Purpura..... | 3 | .064 | .015 | .014 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Alcoholism..... | 19 | .399 | .096 | .087 | 12 | 1 | 6 | 1 | 13 | 6 | 18 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Opium habit..... | 1 | .021 | .007 | | | 1 | | | 1 | | | 1 | | | | | | | | |
| Total dietic diseases..... | 107 | 2.282 | .292 | .971 | 27 | 13 | 38 | 29 | 40 | 67 | 65 | 42 | 6 | 2 | 4 | 4 | 3 | 3 | 3 | 3 |
| Order 4.— <i>Parasitic.</i> | | | | | | | | | | | | | | | | | | | | |
| Thrush..... | 4 | .085 | .029 | .030 | 1 | 3 | 2 | | 4 | 2 | 1 | 3 | | | | | 1 | | | |
| Worms..... | 2 | .043 | | | | | | | | | 2 | | | | | | | | | |
| Total parasitic diseases..... | 6 | .128 | .029 | .030 | 1 | 3 | 2 | | 4 | 2 | 3 | 3 | | | | | 1 | | | |
| Total zymotic diseases..... | 915 | 19.572 | 3.527 | 6.293 | 253 | 228 | 223 | 211 | 481 | 434 | 476 | 439 | 52 | 54 | 50 | 53 | 20 | 37 | 35 | 28 |

CLASS II.—CONSTITUTIONAL DISEASES.

Order 1.—*Dietetic.*

| | | | | | | | | | | | | | | | | | | | | |
|-----------------------|----|------|------|------|----|----|---|---|----|----|----|----|---|---|---|---|--|--|---|---|
| Gout..... | 2 | .043 | .015 | | 1 | 1 | | | 2 | | | 1 | | | | | | | | |
| Rheumatism..... | 34 | .728 | .199 | .101 | 21 | 6 | 4 | 3 | 27 | 7 | 25 | 9 | 5 | 1 | 1 | 1 | | | | |
| Dropsy..... | 22 | .059 | .203 | .033 | 5 | 8 | 6 | 8 | 8 | 14 | 11 | 11 | | | 1 | 1 | | | 1 | 1 |
| Anæmia..... | 4 | .065 | .029 | | 2 | 2 | | | 4 | | | 2 | | | | 1 | | | | |
| Goitre..... | 1 | .021 | .007 | .014 | 1 | | 1 | 1 | 1 | 1 | 1 | | | | | | | | 1 | 1 |
| Hæmatophila..... | 2 | .043 | .007 | | | | | | | | | | | | | | | | | |
| Leucocythæmia..... | 1 | .021 | .007 | | | 1 | 1 | 1 | 1 | | | 1 | | | | | | | | |
| Herpetism..... | 1 | .021 | .007 | | | 1 | 1 | 1 | 1 | | | 1 | | | | | | | | |
| Cancer of breast..... | 17 | .363 | .080 | .087 | | 11 | | 6 | 11 | 6 | | 17 | | 1 | 1 | 1 | | | | |
| uterus..... | 26 | .556 | .125 | .130 | | 17 | | 9 | 17 | 9 | | 26 | | | | | | | | |
| ovary..... | 2 | .043 | .015 | | | 5 | 3 | 3 | 2 | 8 | 5 | 2 | | | | | | | | |
| stomach..... | 13 | .278 | .039 | .072 | 5 | 3 | 3 | 2 | 7 | 5 | 8 | 5 | 2 | | | | | | | |
| liver..... | 7 | .149 | .051 | | 4 | 3 | | 3 | 3 | 7 | 4 | 3 | 1 | | | | | | | |
| mesentery..... | 3 | .064 | .022 | | 2 | 1 | | | 7 | 3 | 2 | 1 | | | | | | | | |
| intestines..... | 8 | .064 | .022 | | 2 | 2 | | | 4 | 3 | 2 | 2 | | | | | | | | |
| pancreas..... | 4 | .085 | .029 | | 2 | 2 | | | 4 | | | 2 | | | | | | | | |
| kidney..... | 1 | .021 | .007 | .014 | | | | 1 | | | 1 | 1 | | | | | | | | |
| abdominal cavity..... | 3 | .064 | .015 | .014 | 2 | | | 1 | 2 | 1 | 2 | 1 | | | | | | | | |
| rectum..... | 1 | .021 | .017 | | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | | | | | | | |
| face..... | 2 | .043 | .015 | | 2 | | | | 1 | 2 | 2 | 2 | | | | | | | | |
| nose..... | 4 | .085 | .029 | | 2 | 2 | | | 4 | 4 | 2 | 2 | | | | | | | | |
| face and throat..... | 1 | .021 | .007 | | | 1 | | | 1 | 1 | 2 | 1 | | | | | | | | |
| throat..... | 2 | .042 | .015 | | 2 | | | | 2 | 2 | 2 | 1 | | | | | | | | |
| neck..... | 1 | .021 | .007 | | 2 | 1 | | | 1 | 1 | 2 | 1 | | | | | | | | |
| head..... | 2 | .043 | .015 | | 2 | | | | 2 | 2 | 2 | 2 | | | | | | | | |
| mouth..... | 1 | .021 | .007 | .014 | | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | | | | |
| heart..... | 1 | .021 | .007 | | | | | | | | 1 | 1 | | | | | | | | |
| axilla..... | 1 | .021 | .007 | | | 1 | | | 1 | 1 | 1 | 1 | | | | | | | | |
| scapula..... | 1 | .021 | .015 | | | 1 | | | 1 | 1 | 1 | 1 | | | | | | | | |
| abdomen..... | 1 | .043 | .007 | | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | | | | | |
| lung..... | 2 | .021 | .007 | | | 1 | | | 2 | 2 | 1 | 1 | | | | | | | | |
| bladder..... | 1 | .021 | .007 | | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | | | | | |
| not located..... | 3 | .064 | .022 | | | 3 | | | 3 | | 1 | 3 | | | | | | | | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | AGE OF DECEDENT. | | | | | | | | | | | | | | | | | | | | Total | Per cent. of each cause to total number of deaths. | | | | |
|-------------------------------|------------------|----|----|----|---------------|----|----|----|---------------|----|----|----|---------------|----|----|----|---------------|----|----|-----|-------|--|----------------------|-----|--------|--|
| | Under 1 year. | | | | 1 to 2 years. | | | | 2 to 3 years. | | | | 3 to 4 years. | | | | 4 to 5 years. | | | | | | Total under 5 years. | | | |
| | W. | M. | F. | C. | W. | M. | F. | C. | W. | M. | F. | C. | W. | M. | F. | C. | W. | M. | F. | C. | | | | | | |
| CLASS I.—ZYMOTIC DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Miasmatic.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measles..... | 1 | | | 1 | | | | | | | | | | | | | | | | | | 3 | 177 | | | |
| Scarlet fever..... | 2 | | | | | | | | | | | | | | | | | | | | | 37 | 2,183 | | | |
| Rötheln..... | | | | | | | | | | | | | | | | | | | | | | 2 | .118 | | | |
| Rubella..... | | | | | | | | | | | | | | | | | | | | | | 2 | .118 | | | |
| Erysipelas..... | 1 | | | | | | | | | | | | | | | | | | | | | 2 | .039 | | | |
| Eczema..... | | | | | | | | | | | | | | | | | | | | | | 2 | .118 | | | |
| Pemphigus..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Typhoid fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cypho-malarial fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestive fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intermittent fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remittent fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Malarial fevers..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gastric fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diphtheria..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group..... | 4 | 1 | 2 | 3 | | 2 | 2 | 3 | 5 | | 4 | 2 | | 2 | 4 | 1 | 2 | 3 | 5 | | 11 | 7 | 13 | 6 | 37 | |
| Tonsillitis..... | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2,183 | |
| Whooping-cough..... | 6 | 6 | 11 | 12 | | 1 | 5 | 6 | | 1 | 1 | 2 | | 1 | 2 | 3 | | 1 | 2 | | 6 | 10 | 21 | 23 | 60 | |
| Mumps..... | | | | | | | | | | | | | | | | | | | | | | | | | 3,640 | |
| Pyæmia..... | 1 | | | | | | | | | | | | | | | | | | | | | | | | .059 | |
| Septicæmia..... | | | | | | | | | | | | | | | | | | | | | | | | | .059 | |
| Furunculosis..... | | | | | | | | | | | | | | | | | | | | | | | | | .118 | |
| Cholera morbus..... | | | | | | | | | | | | | | | | | | | | | | | | | 9,381 | |
| Infantum..... | 32 | 41 | 30 | 29 | | 5 | 8 | 6 | 7 | | 1 | | | 1 | 1 | | | 1 | | | 37 | 49 | 36 | 37 | 159 | |
| Dysentery..... | 1 | | | | | | | | | | | | | | | | | | | | | | | | .236 | |
| Diarrhœa..... | 12 | 14 | 19 | 16 | | 2 | 3 | 1 | 1 | | 2 | | | 1 | | | | 1 | | | 14 | 17 | 23 | 18 | 72 | |
| Enterocolitis..... | 11 | 7 | 6 | 10 | | 2 | 3 | 1 | 2 | | | | | | | | | | | | 13 | 8 | 7 | 13 | 40 | |
| Total miasmatic diseases..... | 72 | 70 | 73 | 71 | 17 | 21 | 19 | 23 | 14 | 6 | 11 | 9 | 13 | 9 | 7 | 8 | 9 | 10 | 8 | 124 | 115 | 120 | 118 | 477 | 28,136 | |
| Order 2.— <i>Enthetic.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Syphilis, congenital..... | 3 | | | | | | | | | | | | | | | | | | | | | | | | .826 | |
| secondary..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| tertiary..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| variety not stated..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total enthetic diseases..... | 3 | | | | | | | | | | | | | | | | | | | | | | | | .826 | |

Order 3.—*Dietic.*

[illegible]

Order 4.—*Parasitic.*

[illegible]

CLASS II.—CONSTITUTIONAL DISEASES.

Order 1.—*Diathetic.*

| Order 1.—Diseases. | | | | | |
|------------------------|---|---|---|---|---|
| Gout..... | 3 | 1 | 1 | 1 | 1 |
| Rheumatism | 3 | 1 | 1 | 1 | 1 |
| Dropsy | 1 | 1 | | | 1 |
| Anemia | | | | | 1 |
| Gonorrhea | | | | | 1 |
| Hemorrhoids | | | | | 1 |
| Leucorrhœia | | | | | 1 |
| Cancer of breast | 2 | | | | 1 |
| Herpetism | 2 | | | | 1 |
| Uterus | 2 | | | | 1 |
| Ovary | 1 | | | | 1 |
| Stomach | 1 | | | | 1 |
| Liver | 1 | | | | 1 |
| Mesentery | 1 | | | | 1 |
| Intestines | | | | | 1 |
| Pancreas | | | | | 1 |
| Kidney | | | | | 1 |
| Abdominal cavity | | | | | 1 |
| Rectum | 1 | | | | 1 |
| Nose | | | | | 1 |
| Face and throat | 1 | | | | 1 |
| Throat | | | | | 1 |
| Neck | | | | | 1 |
| Head | | | | | 1 |
| Mouth | | | | | 1 |
| Heart | | | | | 1 |
| Axilla | | | | | 1 |
| Scapula | | | | | 1 |
| Abdomen | 1 | | | | 1 |
| Lung | | | | | 1 |
| Bladder | | | | | 1 |
| Not located | | | | | 1 |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

[illegible]

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | AGE OF DECEDENT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|----|----|----|----|----|---------------|----|----|----|----|----|---------------|----|----|----|----|----|---------------|----|----|----|----|----|---------------|----|----|----|----|----|----------------------|----|----|----|----|----|--------|---|
| | Under 1 year. | | | | | | 1 to 2 years. | | | | | | 2 to 3 years. | | | | | | 3 to 4 years. | | | | | | 4 to 5 years. | | | | | | Total under 5 years. | | | | | | Total. | Per cent. of each cause to total under 5 years. |
| | W. | | | C. | | | W. | | | C. | | | W. | | | C. | | | W. | | | C. | | | W. | | | C. | | | W. | F. | M. | F. | M. | F. | | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | | | | | | | | |
| CLASS II.—CONSTITUTIONAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Diathetic</i> —Continued. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cancer of oris..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lupus..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total diathetic diseases..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 2.— <i>Tubercular</i> . | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scrofula..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scrofulous abscess..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pott's disease..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marasmus..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tuberculosis..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tubercular meningitis..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tubercular meningitis..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tubercular meningitis..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tubercular diseases of joints..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consumption..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total tubercular diseases..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total constitutional diseases..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLASS III.—LOCAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Nervous system</i> . | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meningitis, cerebral..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cerebro-spinal meningitis..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cerebritis..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apoplexy..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epilepsy..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insanity..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Softening of brain..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cerebral compression..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cerebral embolism..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cerebral trouble..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion of brain..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abscess of brain..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Cause of death.

CLASS II.—CONSTITUTIONAL DISEASES.

Order 1.—*Diathetic*—Continued.

Cancer of oris.....

Lupus.....

Total diathetic diseases.....

Order 2.—*Tubercular*.

Scrofula.....

Scrofulous abscess.....

Pott's disease.....

Hydrocephalus.....

Marasmus.....

Tuberculosis.....

Tubercular meningitis.....

Tubercular meningitis.....

Tubercular diseases of joints.....

Rickets.....

Consumption.....

Total tubercular diseases.....

Total constitutional diseases.....

CLASS III.—LOCAL DISEASES.

Order 1.—*Nervous system*.

Meningitis, cerebral.....

Cerebro-spinal meningitis.....

Cerebritis.....

Apoplexy.....

Epilepsy.....

Insanity.....

Softening of brain.....

Cerebral compression.....

Cerebral embolism.....

Cerebral trouble.....

Congestion of brain.....

Abscess of brain.....

AGE OF DECEDENT.

Under 1 year.

1 to 2 years.

2 to 3 years.

3 to 4 years.

4 to 5 years.

Total under 5 years.

Total.

Per cent. of each cause of mortality under 5 years.

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

[illegible]

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

[illegible]

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

[illegible]

TABLE 1.—Showing the number of deaths occurring in the District of Columbia, &c.—Continued.

[illegible]

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | 1885. | | | | | | | | | | | | | | | | | | 1886. | | | | | |
|----------------------------------|------------|----|----|----------------------|----|----|----|----|----|----------|----|----|-----------|----|----|-----------|----|----|-----------------------|----|----|----|----------|----|
| | September. | | | Total first quarter. | | | | | | October. | | | November. | | | December. | | | Total second quarter. | | | | January. | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 1 | 2 | 4 | 4 | 5 | 6 | 12 | 2 | 3 | 1 | 2 | 1 | 2 | 2 | 3 | 3 | 3 | 6 | 1 | 3 | | | |
| Dentition..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomatitis..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Pharyngitis..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion of stomach..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation of stomach..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer of stomach..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Hæmorrhage of stomach..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Indigestion..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Dyspepsia..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Incessant vomiting..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Gastro-enteritis..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion of bowels..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation of bowels..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Typhlitis..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Colitis..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Stricture of rectum..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Hæmorrhoids..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulceration of bowels..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulceration of colon..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Irritation of bowels..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Obstruction of bowels..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritonitis..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Hæmorrhage of bowels..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Intussusception of bowels..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Colic..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Stricture of bowels..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Fistula in ano..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion of liver..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Cirrhosis of liver..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation of liver..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Jaundice..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Enlargement of liver..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Gall-stone..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Amyloid liver..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Disease of liver..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Obstruction of gall-bladder..... | | | | | | | | | | | | | | | | | | | | | | | | |

CLASS III.—LOCAL DISEASES.

Order 4.—Digestive organs.

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | 1886. | | | | | | | | | | | |
|----------------------------------|-----------|----|----|--------|----|----|----------------------|----|----|------|----|----|
| | February. | | | March. | | | Total third quarter. | | | May. | | |
| | | | | | | | | | | | | |
| | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. |
| CLASS III.—LOCAL DISEASES. | | | | | | | | | | | | |
| Order 4.—Digestive organs. | | | | | | | | | | | | |
| Dentition..... | 1 | 2 | | 2 | 2 | 4 | 2 | 5 | 4 | 0 | | |
| Stomatitis..... | | | | | | | | | | | | |
| Pharyngitis..... | | | | | | | | | | | | |
| Congestion of stomach..... | 1 | | | | | | | | | | | |
| Inflammation of stomach..... | 2 | | | 3 | | | 1 | 3 | 1 | | | |
| Ulcer of stomach..... | 1 | 1 | | | | | 2 | 1 | 3 | | | |
| Hæmorrhage of stomach..... | | | | | | | | | | | | |
| Indigestion..... | | | | | | | | | | | | |
| Dyspepsia..... | | | | | | | | | | | | |
| Incessant vomiting..... | | | | | | | | | | | | |
| Gastro-enteritis..... | 1 | 1 | | | | | 1 | 1 | 1 | 1 | | |
| Congestion of bowels..... | | | | | | | | | | | | |
| Inflammation of bowels..... | 1 | | | | | | 2 | 2 | 1 | | | |
| Typhlitis..... | | | | | | | | | | | | |
| Golitis..... | | | | | | | | | | | | |
| Stricture of rectum..... | 1 | | | 1 | | | 1 | 1 | 1 | 2 | | |
| Hæmorrhoids..... | | | | | | | | | | | | |
| Ulceration of bowels..... | | | | 1 | | | | | | | | |
| Ulceration of colon..... | | | | | | | | | | | | |
| Irritation of bowels..... | 1 | | | | | | 1 | | | | | |
| Obstruction of bowels..... | 1 | | | | | | | | | | | |
| Peritonitis..... | 2 | 2 | | 1 | | | 5 | 2 | 1 | 2 | 1 | |
| Hæmorrhage of bowels..... | | | | | | | | | | | | |
| Intussusception of bowels..... | | | | | | | | | | | | |
| Colic..... | 1 | | | | | | 1 | 1 | 1 | 1 | | |
| Stricture of bowels..... | | | | | | | 2 | | | | | |
| Fistula in ano..... | | | | | | | 1 | | | | | |
| Congestion of liver..... | | | | | | | | | | | | |
| Cirrhosis of liver..... | 1 | 2 | | 2 | 2 | | 1 | | | | | |
| Inflammation of liver..... | 1 | 1 | | | | | 1 | 1 | 1 | 1 | | |
| Jaundice..... | | | | | | | | | | | | |
| Enlargement of liver..... | | | | | | | | | | | | |
| Gall-stone..... | | | | | | | | | | | | |
| Amyleoid liver..... | | | | | | | | | | | | |
| Disease of liver..... | | | | | | | | | | | | |
| Obstruction of gall-bladder..... | | | | 1 | 1 | | | 1 | 1 | 1 | | |

CLASS III.—LOCAL DISEASES.

Order 4.—Digestive organs.

TABLE 1.—Showing total number of deaths occurring in the District of Columbia, 1900.—Continued.

[illegible]

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | Total deaths from each cause. | Per cent. of each cause to total mortality. | DEATH-RATE. | | | RECAPITULATION. | | | | | | | | | | | | 1885. | | | | | | |
|-----------------------------------|-------------------------------|---|-------------------------------|--------|-------|-------------------------|-----|-----|-------|-----|-------|-----------------|----|----|-------|----|-------|---------|----|----|----|----|----|--|
| | | | Deaths per 1,000 inhabitants. | | | Total by color and sex. | | | | | | Total by color. | | | July. | | | August. | | | | | | |
| | | | W. | C. | Total | W. | | | C. | | | W. | M. | F. | W. | C. | Total | W. | M. | F. | | | | |
| | | | | | | M. | F. | T. | M. | F. | T. | | | | | | | | | | M. | F. | T. | |
| CLASS III.—LOCAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 8.—Integumentary. | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation of ears | 1 | .07 | | | | | | | | | | | | | | | | | | | | | | |
| Axillary abscess | 1 | .021 | | | | 1 | | | | | | | | | | | | | | | | | | |
| Abscess of back | 1 | .021 | | .014 | | | | | | | | | | | | | | | | | | | | |
| Abscess of thigh | 1 | .021 | | .014 | | | | | | | | | | | | | | | | | | | | |
| Abscess | 3 | .065 | | .014 | | 2 | | | | | | | | | | | | | | | | | | |
| Total integumentary | 7 | .149 | | .029 | | .042 | | | | | | | | | | | | | | | | | | |
| Total local diseases | 1,905 | 40.767 | 7,750 | 12,330 | 605 | 449 | 414 | 437 | 1,054 | 851 | 1,019 | 886 | 62 | 49 | 31 | 41 | 48 | 38 | 29 | 28 | | | | |
| CLASS IV.—DEVELOPMENTAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.—Children. | | | | | | | | | | | | | | | | | | | | | | | | |
| Premature birth | 82 | 1.756 | .324 | .552 | | 25 | 19 | 21 | 17 | 44 | 38 | 46 | | | | | | | | | | | | |
| Congenital debility | 93 | 1.991 | .257 | .842 | | 22 | 19 | 34 | 24 | 35 | 58 | 56 | | | | | | | | | | | | |
| Cyanosis | 12 | .256 | .066 | .043 | | 3 | 6 | 2 | 1 | 9 | 3 | 5 | | | | | | | | | | | | |
| Jaundice | 1 | .021 | .007 | | | | | | | | | | | | | | | | | | | | | |
| Jaundice neonatorum | 1 | .021 | .007 | | | | | | | | | | | | | | | | | | | | | |
| Cleft palate | 5 | .106 | .029 | .014 | | | | | | | | | | | | | | | | | | | | |
| Malformation | 9 | .194 | .036 | .058 | | | 5 | 1 | 3 | 5 | 4 | 1 | 8 | | | | | | | | | | | |
| Atelectasis pulmonum | 4 | .086 | .007 | .043 | | | | 2 | 1 | 1 | 3 | 3 | 1 | | | | | | | | | | | |
| Hæmorrhage of cord | 1 | .021 | .014 | | | | | | | | | | | | | | | | | | | | | |
| Foot presentation | 6 | .128 | .024 | .043 | | 3 | | 1 | 2 | 3 | 3 | 4 | 2 | | | | | | | | | | | |
| Prolonged labor | 1 | .021 | .014 | | | | | | | | | | | | | | | | | | | | | |
| Preterm labor | 2 | .043 | .007 | .014 | | | | | | | | | | | | | | | | | | | | |
| Spina bifida | 1 | .021 | .007 | .014 | | | | | | | | | | | | | | | | | | | | |
| Placenta previa | 1 | .021 | .007 | | | 1 | | | | | | | | | | | | | | | | | | |
| Nonviable | 1 | .021 | .007 | | | | | | | | | | | | | | | | | | | | | |
| Total children | 219 | 4.686 | .778 | 1.638 | 58 | 48 | 64 | 49 | 106 | 113 | 122 | 97 | 5 | 6 | 9 | 4 | 7 | 5 | 5 | 6 | | | | |
| Order 2.—Women. | | | | | | | | | | | | | | | | | | | | | | | | |
| Chorea in pregnancy | 1 | .021 | .007 | | | | | | | | | | | | | | | | | | | | | |
| Extra uterine fecundation | 2 | .043 | | .029 | | | | | | | | | | | | | | | | | | | | |
| Puerperal fever | 20 | .429 | .088 | .117 | | 12 | | 8 | 2 | 12 | 8 | 20 | | | | | | | | | | | | |

[illegible]

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | Total deaths from each cause. | Per cent. of each cause to total mortality. | DEATH-RATE. | | RECAPITULATION. | | | | | | | | | | 1885. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | Deaths per 1,000 inhabitants. | | Total by color and sex. | | | | | | Total by color. | | | | Total by sex. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | W. | C. | Total by color and sex. | | | | W. | C. | M. | F. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W.</ |

Order 3.—*Homicides.*

| Order 3.— <i>Homicides.</i> | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|
| Infanticide, strangulation neglect | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| Kick | 1 | | | | | | | | 2 |
| Incised wound of throat | 1 | | | | | | | | 2 |
| Incised wound of abdomen | 1 | | | | | | | | 2 |
| Gunshot wounds | 1 | | | | | | | | 2 |
| Concussion of brain | | | | | | | | | 2 |
| Blow on head with cane | 1 | | | | | | | | 2 |
| Blow on head | | | | | | | | | 2 |
| Rupture of intestines | | | | | | | | | 2 |
| Total homicides | 2 | 1 | 1 | 4 | 1 | 2 | 1 | 1 | 2 |

Order 4.—*Suicides.*

[illegible]

Order 5.—Injuries received in the late civil war.

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| Order 5.—Injuries received in the late civil war. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |
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RECAPITULATION.

[illegible]

TABLE I.—Showing total number of deaths occurring in the period of epidemic, 1918-19

[illegible]

Order 3.—Homicides.

| Order 3.—Homicides. | | | | | | | |
|---|----|----|-----|-----|----|----|----------------|
| | 1 | 2 | 6 | 7 | 2 | 3 | 0.177 1.005 |
| Infanticide, strangulation neglect..... | | | | | | | |
| Kick..... | | | | | | | |
| Incised wound of throat..... | | | | | | | |
| Incised wound of abdomen..... | | | | | | | |
| Gunshot wounds..... | | | | | | | |
| Gnawing of brain..... | | | | | | | |
| Blow on head with cane..... | | | | | | | |
| Blow on head..... | | | | | | | |
| Rupture of intestines..... | | | | | | | |
| Total homicides..... | 3 | 2 | 6 | 9 | | | 1.180 |
| Order 4.—Suicides. | | | | | | | |
| Pistol-shot wound..... | | | | | | | |
| Cyanide of potash..... | | | | | | | |
| Morphine..... | | | | | | | |
| Narcotic poison..... | | | | | | | |
| Arsenic..... | | | | | | | |
| Hanging..... | | | | | | | |
| Drowning..... | | | | | | | |
| Incised wound of throat..... | | | | | | | |
| Total suicides..... | | | | | | | |
| Order 5.—Injuries received in the late civil war. | | | | | | | |
| Injuries to spine..... | | | | | | | |
| Gunshot wounds..... | | | | | | | |
| Total injuries received in late civil war..... | | | | | | | |
| Total violence..... | 6 | 5 | 14 | 22 | 2 | 1 | 2 |
| RECAPITULATION. | | | | | | | |
| Miasmatic diseases..... | 72 | 70 | 73 | 71 | 17 | 21 | 19 |
| Ethnetic diseases..... | 3 | | 5 | 4 | | 2 | |
| Dietic diseases..... | 14 | 9 | 30 | 28 | 2 | 1 | |
| Parasitic diseases..... | 1 | 3 | | | | 1 | |
| Total zymotic diseases..... | 90 | 82 | 108 | 103 | 17 | 23 | 21 |
| Diathectic diseases..... | | | | | 1 | | |
| Tuberular diseases..... | 26 | 19 | 28 | 23 | 8 | 10 | 23 |
| Total constitutional diseases..... | 26 | 19 | 28 | 23 | 9 | 10 | 23 |
| Nervous system..... | 30 | 30 | 62 | 61 | 5 | 4 | 8 |
| Circulatory organs..... | 2 | 18 | 49 | 38 | 5 | 7 | 28 |
| Respiratory organs..... | 10 | 18 | 49 | 38 | 5 | 7 | 28 |
| Digestive organs..... | 31 | 28 | 17 | 23 | 5 | 10 | 9 |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | AGE OF DECEASED. | | | | | | | | | | | | SOCIAL RELATIONS. | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------|----|----|----|----|----|-----------------|----|----|----|----|----|-------------------|----|----|----|----|----|--------------|----|----|----------|----|----|---------|----|----|----|----|----|----|--|--|----|--|--|
| | 70 to 80 years. | | | | | | 80 to 90 years. | | | | | | Above 90 years. | | | | | | Unknown age. | | | Married. | | | Single. | | | | | | | | | | | |
| | W. | | | C. | | | W. | | | C. | | | W. | | | C. | | | W. | | | C. | | | W. | | | C. | | | W. | | | C. | | |
| | M. | F. | C. | M. | F. | C. | M. | F. | C. | M. | F. | C. | M. | F. | C. | M. | F. | C. | M. | F. | C. | M. | F. | C. | M. | F. | C. | M. | F. | C. | | | | | | |
| Injury of foot..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injuries, internal..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injury resulting in abortion..... | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injury resulting in ulcers..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injury resulting in multiple..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alcohol..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Concentrate ¹ lye..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Johnson weed..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Laudanum..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inhalation of gas..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tetanus..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blow on head..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Concussion of brain..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Concussion..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Neglect..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overlaid by mother..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Run over by street-car..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Railroad accidents..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Burn..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scalded by hot coffee..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cold..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frostbite..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exposure..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Splinter in hand..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Traumatic gangrene..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Explosion of dynamite..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total accidents and negligence..... | 1 | 2 | 3 | 6 | 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 2.—Judicial executions. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hanged..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total judicial executions..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CLASS V.—VIOLENCE.

Order 1.—Accidents and negligence—Continued.

Order 3.—Homicides.

| <i>Order 3.—Homicides.</i> | | | | | |
|---------------------------------|---|---|---|--|--|
| Infanticide, strangulation..... | | | | | |
| Kick..... | 1 | | | | |
| Incised wound of throat..... | | | | | |
| Incised wound of abdomen..... | 1 | | | | |
| Gunshot wounds..... | 1 | 1 | | | |
| Concussion of brain..... | | 2 | | | |
| Blow on head with cane..... | | | | | |
| Blow on head..... | 2 | | | | |
| Capture of intestines..... | | 1 | | | |
| Total homicides..... | 4 | 1 | 2 | | |
| <i>Order 4.—Suicides.</i> | | | | | |
| Pistol-shot wound..... | 1 | | | | |
| Wound by cyanide of potash..... | | 1 | | | |
| Morphine..... | | | | | |
| Sarcotic poison..... | 1 | | | | |
| Arsenic..... | | 1 | | | |
| Strangling..... | | | | | |
| Drowning..... | 1 | | | | |
| Incised wound of throat..... | | 1 | | | |

Order 5.—*Injuries received in late civil war.*

[illegible]

Order 3.—*Homicides.*

| Order 3.— <i>Homicides</i> . | | ° | |
|------------------------------------|---|---|---|
| Infanticide, strangulation neglect | 1 | 2 | 6 |
| Kick | 2 | 7 | 1 |
| Incised wound of throat | | | |
| Incised wound of abdomen | | | |
| Gunshot wounds | 1 | 1 | 1 |
| Concussion of brain | | 3 | 1 |
| Blow on head with cane | | 1 | |
| Blow on head | | | |
| Blow on head | | | |
| Rupture of intestines | 1 | 1 | 1 |

Order 4.—*Suicides.*

| Order 4.— <i>Suicide</i> . | | | | | | | | | |
|----------------------------|---|--|--|--|--|---|--|--|--|
| | | | | | | | | | |
| Pistol-shot wound | 1 | | | | | | | | |
| Cyanide of potash | | | | | | | | | |
| Morphine | | | | | | 4 | | | |
| Narcotic poison | | | | | | | | | |
| Arsenic | | | | | | | | | |
| Hanging | | | | | | | | | |
| Drowning | | | | | | | | | |
| Decised wound of throat | 1 | | | | | 2 | | | |

Order 5.—Injuries received in the late civil war.

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Total violence
RECAPITULATION.

[illegible][illegible]

| Total constitutional diseases..... | | | | | | | | | | | | | | | | | | |
|------------------------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|
| 24 | 45 | 16 | 50 | 1 | ... | 118 | 100 | 119 | 146 | 109 | 137 | 160 | 190 | 59 | 35 | 1 | ... | 2 |
| Nervous system..... | | | | | | | | | | | | | | | | | | |
| 36 | 29 | 14 | 37 | 5 | ... | 77 | 62 | 84 | 87 | 90 | 53 | 45 | 58 | 59 | 16 | ... | 2 | 3 |
| Circulatory organs..... | | | | | | | | | | | | | | | | | | |
| 19 | 18 | 9 | 28 | 1 | ... | 15 | 4 | 5 | 11 | 35 | 27 | 38 | 65 | 33 | 18 | ... | 1 | ... |
| Respiratory organs..... | | | | | | | | | | | | | | | | | | |
| 17 | 30 | 12 | 10 | 2 | ... | 46 | 41 | 104 | 91 | 44 | 47 | 46 | 37 | 31 | 16 | ... | 2 | ... |
| Genitourinary organs..... | | | | | | | | | | | | | | | | | | |
| 10 | 31 | 2 | 7 | ... | ... | 48 | 58 | 31 | 45 | 36 | 35 | 17 | 17 | 24 | 21 | ... | 1 | ... |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | 1885. | | | | | | | | | | | | 1886. | | | | | | | | | | | | | | | |
|--|------------|----|----|----|----------------------|----|----|----|----------|----|----|----|-----------|----|----|----|-----------|----|----|----|-----------------------|----|----|----|----------|----|----|----|
| | September. | | | | Total first quarter. | | | | October. | | | | November. | | | | December. | | | | Total second quarter. | | | | January. | | | |
| | W. | | C. | | W. | | C. | | W. | | C. | | W. | | C. | | W. | | C. | | W. | | C. | | W. | | C. | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| RECAPITULATION. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary organs..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Generative organs..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ossous and locomotory..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integumentary..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total local diseases..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Children..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Women..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Old age..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nutrition..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total developmental diseases..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accidents and negligence..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Judicial executions..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Homicides..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Suicides..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injuries received in the late civil war..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total violence..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total from all causes by sex and color..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total from all causes by color..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grand total from all causes..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percentages from all causes, by color, in each pe- riod of life to total mortality..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rate of deaths per 1,000 inhabitants (white and colored)..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Death-rate per 1,000 inhabitants (total)..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | 1886. | | | | | | | | | | | |
|--|-----------|-------|-------|--------|-------|-------|----------------------|-------|-------|--------|-------|-------|
| | February. | | | March. | | | Total third quarter. | | | April. | | |
| | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. |
| Urinary organs | 2 | 3 | 2 | 11 | 3 | 3 | 16 | 7 | 6 | 5 | 6 | 3 |
| Genital organs | 3 | 2 | 1 | 3 | 1 | 1 | 7 | 7 | 1 | 1 | 1 | 1 |
| Obstetric and locomotory | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Intemperance | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total local diseases | 50 | 38 | 47 | 49 | 67 | 53 | 157 | 137 | 129 | 136 | 62 | 36 |
| Children | 10 | 3 | 6 | 6 | 3 | 6 | 18 | 15 | 15 | 17 | 2 | 4 |
| Women | 4 | 4 | 3 | 3 | 6 | 1 | 11 | 11 | 15 | 2 | 2 | 2 |
| Old age | 2 | 8 | 2 | 10 | 4 | 4 | 21 | 4 | 20 | 4 | 5 | 4 |
| Nativity | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| Total developmental diseases | 12 | 16 | 8 | 20 | 4 | 20 | 24 | 49 | 19 | 44 | 6 | 11 |
| Accidents and negligence | 2 | 3 | 5 | 4 | 2 | 1 | 6 | 5 | 11 | 7 | 3 | 4 |
| Judicial executions | 1 | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 7 | 4 | 1 | 1 |
| Homicides | 2 | 1 | 1 | 3 | 1 | 1 | 5 | 2 | 2 | 2 | 1 | 2 |
| Suicides | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 |
| Injuries received in the late civil war | 4 | 4 | 9 | 5 | 7 | 2 | 14 | 7 | 20 | 11 | 5 | 6 |
| Total violence | 100 | 96 | 94 | 109 | 131 | 115 | 336 | 311 | 251 | 297 | 107 | 77 |
| Total from all causes by sex and color | 196 | 203 | 246 | 192 | 438 | 1,215 | 667 | 548 | 184 | 194 | 158 | 171 |
| Total from all causes by color | 399 | 438 | 1,215 | 378 | 329 | 388 | 329 | 388 | 329 | 388 | 329 | 388 |
| Grand total from all causes | 4.19 | 4.34 | 5.26 | 4.11 | 14.27 | 11.72 | 3.93 | 4.15 | 3.38 | 3.66 | 4.13 | 4.17 |
| Percentages from all causes, by color, in each period of life to total mortality | 1.440 | 2.912 | 1.809 | 2.782 | 4.904 | 7.941 | 1.351 | 2.770 | 1.172 | 2.408 | 1.411 | 2.700 |
| Rate of deaths per 1,000 inhabitants (white and colored) | 1.946 | 2.137 | 5.927 | 1.844 | 1.892 | 5.341 | 1.844 | 1.892 | 5.341 | 1.892 | 5.341 | 5.341 |
| Death-rate per 1,000 inhabitants (total) | 1.946 | 2.137 | 5.927 | 1.844 | 1.892 | 5.341 | 1.844 | 1.892 | 5.341 | 1.892 | 5.341 | 5.341 |

TABLE 1.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | AGE OF DECEDENT. | | | | | | | | | | | | | | | | Per cent. of each cause to total mortality under 5 years of age. | | |
|---|------------------|-------|---------------|-------|---------------|-------|---------------|------|---------------|------|----------------------|-------|----|----|-------|----|--|-----|---------|
| | Under 1 year. | | 1 to 2 years. | | 2 to 3 years. | | 3 to 4 years. | | 4 to 5 years. | | Total under 5 years. | | | | Total | | | | |
| | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | | | | | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | | | | | |
| RECAPITULATION. | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
| Urinary organs..... | | | | | | | | | | | | | | | | | | | |
| Generative organs..... | | | | | | | | | | | | | | | | | | | |
| Osses and locomotory..... | | | | | | | | | | | | | | | | | | | |
| Integumentary..... | | | | | | | | | | | | | | | | | | | |
| Total local diseases..... | 88 | 76 | 129 | 122 | 15 | 21 | 45 | 40 | 11 | 5 | 23 | 3 | 4 | 5 | 13 | 7 | 2 | 5 | 236 |
| Children..... | | | | | | | | | | | | | | | | | | | |
| Women..... | | | | | | | | | | | | | | | | | | | |
| Old age..... | | | | | | | | | | | | | | | | | | | |
| Nutrition..... | 2 | 1 | 1 | 1 | | | | | | | | | | | 1 | | | 2 | 5 |
| Total developmental diseases..... | 58 | 46 | 65 | 50 | | 2 | | | | | | | | | 1 | | | 60 | 13,076 |
| Accidents and negligence..... | | | | | | | | | | | | | | | | | | | |
| Judicial executions..... | 3 | 3 | 8 | 13 | | | 2 | 1 | 2 | | 1 | 1 | 1 | | | | 1 | 4 | 2,361 |
| Homicides..... | | | | | | | | | | | | | | | | | | | |
| Suicides..... | | | | | | | | | | | | | | | | | | | |
| Injuries received in the late civil war..... | 3 | 2 | 6 | 9 | | | | | | | | | | | | | | 3 | 1,180 |
| Total violence..... | 6 | 5 | 14 | 22 | | | 2 | 1 | 2 | | 1 | 1 | 1 | | | | 1 | 7 | 3,481 |
| Total from all causes by sex and color..... | 268 | 228 | 344 | 320 | 41 | 58 | 90 | 83 | 30 | 13 | 26 | 47 | 19 | 15 | 21 | 26 | 16 | 374 | 100,000 |
| Total from all causes by color..... | 496 | 664 | 99 | 173 | 43 | 73 | 34 | 47 | 29 | 45 | 701 | 1,002 | | | | | | | |
| Grand total from all causes..... | 1,160 | | 272 | | 116 | | 81 | | 74 | | | | | | 1,703 | | | | |
| Percentages from all causes, by color, in each period of life to total mortality..... | 10.61 | 14.21 | 2.11 | 3.70 | 0.92 | 1.56 | 0.73 | 1.01 | 0.62 | 0.96 | | | | | | | | | |
| Ratio of deaths per 1,000 inhabitants (white and colored)..... | 3,632 | 9,628 | 0.728 | 2,508 | .322 | 1.058 | .250 | .681 | .220 | .652 | | | | | | | | | |
| Death-rate per 1,000 inhabitants (total)..... | 5,722 | | 1,320 | | 0.558 | | 0.395 | | 0.266 | | | | | | | | | | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | AGE OF DECEDENT. | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|-------|----|----|-----------------|----|-------|----|-----------------|-----|-------|-----|-----------------|-----|-------|-----|-----------------|----|-------|----|-----------------|----|-------|----|
| | 5 to 10 years. | | | | 10 to 20 years. | | | | 20 to 30 years. | | | | 30 to 40 years. | | | | 40 to 50 years. | | | | 50 to 60 years. | | | |
| | W. | M. | F. | C. | W. | M. | F. | C. | W. | M. | F. | C. | W. | M. | F. | C. | W. | M. | F. | C. | W. | M. | F. | C. |
| Urinary organs..... | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| Generative organs..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Osseous and locomotory..... | 1 | | | | 2 | 1 | 2 | | 1 | 5 | 1 | | 1 | 1 | 1 | | 3 | 2 | | | 1 | | | |
| Integumentary..... | | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | | | | | | |
| Total local diseases..... | 13 | 8 | 11 | 15 | 17 | 21 | 16 | 14 | 25 | 34 | 17 | 24 | 42 | 35 | 28 | 36 | 96 | 47 | 50 | 37 | 90 | 39 | 24 | 27 |
| Children..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Women..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Old age..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Nutrition..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Total developmental diseases..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Accidents and negligence..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Judicial executions..... | 2 | 2 | 5 | 3 | 6 | 1 | 3 | 1 | 5 | 3 | 4 | 1 | 7 | 1 | 9 | 1 | 7 | | 4 | 1 | 6 | 1 | 3 | |
| Homicides..... | | | | | | | | | 1 | | | | 1 | | 1 | | | | | | 1 | | | |
| Suicides..... | | | | | | | | | 2 | 1 | 2 | | 2 | | 1 | | 5 | | | | 1 | | | |
| Injuries received in the late civil war..... | | | | | | | | | 3 | 1 | 1 | | 4 | | 1 | | 1 | | 4 | 1 | | | | |
| Total violence..... | 2 | 2 | 5 | 3 | 6 | 1 | 7 | 1 | 11 | 3 | 6 | 3 | 13 | 1 | 12 | 2 | 17 | 1 | 4 | 1 | 10 | 2 | 3 | |
| Total from all causes by sex and color..... | 44 | 39 | 41 | 53 | 54 | 62 | 75 | 86 | 116 | 129 | 76 | 121 | 115 | 115 | 85 | 100 | 161 | 87 | 91 | 80 | 154 | 80 | 52 | 50 |
| Total from all causes by color..... | 83 | 94 | | | 116 | | 161 | | 245 | | 197 | | 230 | | 185 | | 248 | | 171 | | 234 | | 102 | |
| Grand total from all causes..... | 177 | | | | 277 | | | | 442 | | | | 415 | | | | 419 | | | | 336 | | | |
| Percentages from all causes by color, in each period of life to total mortality..... | 1.78 | 2.01 | | | 2.48 | | 3.44 | | 5.24 | | 4.21 | | 4.92 | | 3.95 | | 5.30 | | 3.66 | | 5.00 | | 2.19 | |
| Rate of deaths per 1,000 inhabitants (white and colored)..... | .605 | 1.363 | | | .850 | | 2.334 | | 1.788 | | 2.856 | | 1.079 | | 2.682 | | 1.810 | | 2.479 | | 1.708 | | 1.479 | |
| Death-rate per 1,000 inhabitants (total)..... | 0.863 | | | | 1.351 | | | | 2.156 | | | | 2.024 | | | | 2.035 | | | | 1.639 | | | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, &c.—Continued.

| Cause of death. | SOCIAL RELATIONS. | | | | | | | | | | NATIVITY. | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|-----|-------|-----|-----|----------|-----|-----|-----|-----|-----------------------|-----|--------|-----|-----|-------------------------------|-----|--------|-----|-----|----------|-----|-------|-----|-----|----------|-----|------|-----|-----|-----|
| | Widow or widower. | | | | | Unknown. | | | | | District of Columbia. | | | | | Other parts of United States. | | | | | Foreign. | | | | | Unknown. | | | | | |
| | W. | F. | M. | F. | C. | W. | F. | M. | F. | C. | W. | F. | M. | F. | C. | W. | F. | M. | F. | C. | W. | F. | M. | F. | C. | W. | F. | M. | F. | C. | |
| RECAPITULATION. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary organs..... | 9 | 13 | 7 | 6 | ... | ... | ... | ... | ... | ... | 14 | 6 | 7 | 4 | ... | 21 | 22 | 22 | 13 | ... | 22 | 5 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Genital organs..... | 4 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | 3 | 1 | ... | 1 | 12 | 4 | ... | ... | 4 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Osteons and locomotory..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 1 | 3 | ... | ... | 1 | 1 | 4 | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Integumentary..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | 1 | ... | ... | 2 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total local diseases..... | 91 | 126 | 44 | 90 | 8 | ... | ... | ... | ... | ... | 203 | 174 | 235 | 239 | ... | 229 | 197 | 173 | 106 | ... | 170 | 76 | ... | ... | ... | 1 | 3 | 2 | 6 | 1 | ... |
| Children..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 57 | 48 | 64 | 49 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Women..... | 10 | 50 | 10 | 48 | ... | ... | ... | ... | ... | ... | 3 | 5 | 2 | 7 | ... | 16 | 37 | 29 | 49 | ... | 21 | 4 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Old age..... | 1 | 3 | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 1 | 1 | 2 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Nutrition..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 1 | 1 | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total developmental diseases..... | 11 | 53 | 10 | 49 | ... | ... | ... | ... | ... | ... | 63 | 61 | 67 | 60 | ... | 17 | 57 | 29 | 71 | ... | 13 | 26 | ... | ... | ... | ... | 1 | ... | ... | ... | ... |
| Accidents and negligence..... | 6 | 8 | 4 | 1 | 2 | ... | ... | ... | ... | ... | 17 | 12 | 17 | 18 | ... | 18 | 8 | 29 | 7 | ... | 7 | 4 | ... | ... | ... | ... | 2 | ... | ... | ... | ... |
| Judicial executions..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Homicides..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 2 | 10 | 9 | ... | 4 | ... | 2 | 2 | ... | 5 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Suicides..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 2 | ... | ... | 6 | 1 | ... | 1 | ... | 1 | 5 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Injuries received in the late civil war..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total violence..... | 8 | 8 | 5 | 1 | 4 | ... | ... | ... | ... | ... | 21 | 14 | 30 | 27 | ... | 31 | 9 | 31 | 16 | ... | 19 | 5 | ... | ... | ... | ... | 3 | ... | ... | ... | ... |
| Total from all causes by sex and color..... | 147 | 251 | 81 | 201 | 13 | 1 | 3 | 3 | ... | ... | 566 | 506 | 626 | 644 | ... | 451 | 459 | 440 | 505 | ... | 288 | 100 | 1 | 1 | 1 | 7 | 5 | 10 | 5 | ... | ... |
| Total from all causes by color..... | 398 | 282 | 14 | ... | ... | ... | ... | ... | ... | ... | 1,072 | ... | 1,270 | ... | ... | 910 | ... | 945 | ... | ... | 448 | ... | 2 | ... | ... | 12 | ... | 15 | ... | ... | ... |
| Grand total from all causes..... | 680 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2,342 | ... | ... | ... | ... | 1,855 | ... | ... | ... | ... | 450 | ... | ... | ... | ... | 27 | ... | ... | ... | ... | ... |
| Percentages from all causes, by color, in each per- cent of life to total mortality..... | 8.51 | ... | 6.03 | ... | ... | ... | ... | ... | ... | ... | 22.94 | ... | 27.18 | ... | ... | 19.47 | ... | 20.22 | ... | ... | 9.59 | ... | 0.04 | ... | ... | 0.25 | ... | 0.32 | ... | ... | ... |
| Rate of deaths per 1,000 inhabitants (white and colored)..... | 2.905 | ... | 4.039 | ... | ... | ... | ... | ... | ... | ... | 7.825 | ... | 18.415 | ... | ... | 6.613 | ... | 13.702 | ... | ... | 3.270 | ... | 0.029 | ... | ... | .087 | ... | .217 | ... | ... | ... |
| Death-rate per 1,000 inhabitants (total)..... | 3.312 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 11.414 | ... | ... | ... | ... | 9.488 | ... | ... | ... | ... | 2.105 | ... | ... | ... | ... | 0.132 | ... | ... | ... | ... | ... |

TABLE II.—Location of deaths, year ending June 30, 1886.

| Diseases. | Georgetown. | | | | Washington. | | | | | | | | | | | | | | | |
|---|----------------------------------|------|---------------------------------|------|---|------|---|-------|---|-------|---|------|--|-------|--|------|--|--|--|--|
| | 1st division—west of 32d street. | | 2d division—east of 32d street. | | 3d division—south of K and west of 15th street northwest. | | 4th division—north of K and west of Vermont avenue northwest. | | 5th division—north of Massachusetts avenue, east of Vermont avenue, and west of First street northwest. | | 6th division—north of B street south, east of 15th street, south of Massachusetts avenue, west of First street northwest. | | 7th division—south of B street south, west of First street west, and Delaware avenue south-west. | | 8th division—east of Delaware avenue, south of E street southeast. | | | | | |
| | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | | | | |
| Consumption | 17 | 6 | 5 | 13 | 12 | 27 | 25 | 60 | 46 | 65 | 33 | 19 | 36 | 73 | 20 | 20 | | | | |
| Pneumonia | 4 | 2 | 2 | 3 | 7 | 5 | 9 | 26 | 16 | 23 | 13 | 13 | 21 | 24 | 10 | 9 | | | | |
| Cholera infantum | 3 | 1 | 1 | 1 | 8 | 4 | 6 | 12 | 17 | 14 | 3 | 6 | 15 | 9 | 10 | 1 | | | | |
| Scarlet fever | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 5 | 6 | 1 | 3 | 1 | 1 | 5 | 1 | 1 | | | | |
| Diphtheria | 2 | 1 | 1 | 1 | 2 | 2 | 8 | 17 | 2 | 4 | 6 | 1 | 4 | 5 | 4 | 1 | | | | |
| Typhoid fever | 2 | 1 | 3 | 4 | 3 | 4 | 10 | 11 | 3 | 6 | 13 | 1 | 8 | 2 | 6 | 6 | | | | |
| Typho-malarial fever | 1 | 1 | 1 | 1 | 2 | 1 | 5 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 4 | 1 | | | | |
| Malarial fever | 1 | 1 | 1 | 1 | 2 | 1 | 5 | 4 | 4 | 1 | 1 | 1 | 6 | 2 | 4 | 2 | | | | |
| Diarrheal diseases other than cholera infantum. | 2 | 2 | 2 | 3 | 7 | 15 | 7 | 5 | 5 | 7 | 8 | 1 | 13 | 11 | 6 | 4 | | | | |
| All other causes | 47 | 25 | 40 | 36 | 63 | 71 | 126 | 221 | 191 | 169 | 239 | 71 | 159 | 190 | 112 | 65 | | | | |
| Unknown | | | | | | | | | | | | | | | | | | | | |
| Total | 78 | 35 | 54 | 55 | 100 | 127 | 198 | 361 | 304 | 289 | 319 | 115 | 263 | 322 | 176 | 109 | | | | |
| Percentage to total deaths by color.... | 3.19 | 1.57 | 2.21 | 2.46 | 4.34 | 5.69 | 8.10 | 16.17 | 12.44 | 12.95 | 13.06 | 5.15 | 10.77 | 14.43 | 7.20 | 4.90 | | | | |

| Diseases. | Washington. | | | | County. | | | | Hospitals and other public institutions. | | Unknown. | | Totals by color. | | Grand total. | | |
|--|--|------|------|------|--|------|---------------------------------------|------|--|-------|----------|------|------------------|--------|--------------|---------------------------------------|--|
| | 9th division—north of E street southeast, east of First street west, south of Maryland avenue northeast. | | | | 10th division—east of First street west, north of Maryland avenue northeast. | | 11th division—west of Eastern Branch. | | | | | | | | | 12th division—east of Eastern Branch. | |
| | | | | | | | | | | | | | | | | | |
| W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | | |
| Consumption | 34 | 22 | 47 | 23 | 26 | 25 | 2 | 24 | 51 | 63 | ... | 2 | 354 | 442 | 796 | | |
| Pneumonia | 12 | 13 | 15 | 12 | 8 | 6 | 4 | 2 | 10 | 17 | ... | ... | 131 | 155 | 286 | | |
| Cholera infantum | 4 | 7 | 11 | 8 | 4 | 10 | 4 | 2 | ... | ... | ... | ... | 86 | 73 | 159 | | |
| Scarlet fever | 6 | ... | 5 | 1 | 4 | 2 | ... | ... | 1 | ... | ... | ... | 33 | 15 | 48 | | |
| Diphtheria | 1 | 1 | 5 | 2 | 3 | 8 | 3 | 1 | 5 | ... | ... | ... | 49 | 39 | 88 | | |
| Typhoid fever | 8 | 3 | 4 | 4 | 2 | 1 | 2 | 1 | 12 | 8 | ... | ... | 81 | 47 | 128 | | |
| Typho-malarial fever | ... | 2 | 1 | 1 | ... | ... | ... | 1 | ... | 1 | ... | ... | 8 | 9 | 17 | | |
| Malarial fever | 1 | 3 | 4 | 2 | 2 | ... | 2 | 4 | 1 | 2 | ... | ... | 33 | 21 | 54 | | |
| Diarrheal diseases other than cholera infantum | 8 | 7 | 8 | 4 | 4 | 2 | 2 | 3 | 15 | 15 | ... | ... | 87 | 79 | 166 | | |
| All other causes | 101 | 80 | 118 | 63 | 62 | 87 | 21 | 35 | 287 | 209 | 14 | 30 | 1,580 | 1,352 | 2,932 | | |
| Unknown | | | | | | | | | | | | | | | | | |
| Total | 175 | 138 | 218 | 120 | 115 | 141 | 40 | 73 | 382 | 315 | 14 | 32 | 2,442 | 2,232 | 4,674 | | |
| Percentage to total deaths by color | 7.18 | 6.21 | 8.93 | 5.37 | 4.72 | 6.32 | 1.65 | 3.27 | 15.64 | 14.12 | .57 | 1.42 | 100.00 | 100.00 | | | |

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TABLE III.—Deaths under one year of age arranged monthly, for year ending June 30, 1886.

| | 1 day and under. | 1 day to one week. | 1 week to 1 month. | 1 to 2 months. | 2 to 3 months. | 3 to 4 months. | 4 to 5 months. | 5 to 6 months. | 6 to 7 months. | 7 to 8 months. | 8 to 9 months. | 9 to 10 months. | 10 to 11 months. | 11 to 12 months. | Total. | Total by color. | Percentage to total mortality under 1 year of age by color. |
|-------------------------|------------------|--------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|--------|-----------------|---|
| July, 1885: | | | | | | | | | | | | | | | | | |
| White males | 3 | 3 | 6 | 5 | 7 | 6 | 5 | 4 | 3 | 2 | 4 | 1 | ... | ... | 49 | 106 | 21.38 |
| females | 1 | 5 | 6 | 1 | 5 | 10 | 8 | 5 | 5 | 4 | 2 | 4 | 2 | ... | 57 | | |
| Colored males | 4 | 3 | 5 | 6 | 7 | 6 | 8 | 6 | 4 | 6 | 1 | 4 | 3 | ... | 59 | 115 | 17.31 |
| females | 2 | 4 | 3 | 7 | 7 | 4 | 5 | 6 | 6 | 1 | ... | 2 | 2 | ... | 56 | | |
| Total | 10 | 15 | 20 | 19 | 21 | 26 | 24 | 21 | 18 | 13 | 13 | 10 | 6 | 5 | 221 | 221 | ... |
| August, 1885: | | | | | | | | | | | | | | | | | |
| White males | 2 | 4 | 2 | 5 | 3 | 3 | 2 | ... | ... | 1 | 1 | 1 | ... | ... | 24 | 49 | 9.89 |
| females | 2 | ... | 4 | 1 | 2 | 3 | 2 | 3 | ... | 2 | 2 | 3 | 1 | 2 | 25 | | |
| Colored males | 3 | 1 | 9 | 2 | 3 | 2 | 2 | ... | 1 | 6 | 2 | 1 | 1 | 3 | 36 | 71 | 10.70 |
| females | 5 | 5 | 4 | 4 | 6 | 2 | 3 | 1 | ... | 1 | ... | 2 | ... | 2 | 35 | | |
| Total | 12 | 10 | 19 | 12 | 14 | 10 | 9 | 4 | 1 | 8 | 5 | 7 | 2 | 7 | 120 | 120 | ... |
| September, 1885: | | | | | | | | | | | | | | | | | |
| White males | 1 | 3 | 4 | 5 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 26 | 42 | 8.45 |
| females | 1 | 1 | 1 | ... | 4 | 1 | 1 | ... | 1 | 2 | 1 | 2 | 1 | ... | 16 | | |
| Colored males | 1 | 1 | 5 | 3 | 1 | 2 | 2 | ... | 1 | 1 | 1 | 1 | ... | 3 | 21 | 49 | 7.38 |
| females | 4 | 1 | 5 | 1 | 2 | 3 | 2 | 3 | 3 | ... | 1 | 1 | 1 | 1 | 28 | | |
| Total | 7 | 6 | 15 | 9 | 9 | 7 | 7 | 4 | 5 | 4 | 5 | 5 | 3 | 5 | 91 | 91 | ... |
| October, 1885: | | | | | | | | | | | | | | | | | |
| White males | ... | ... | 1 | 4 | ... | 1 | 1 | ... | ... | 1 | ... | 3 | 2 | ... | 13 | 21 | 4.23 |
| females | 2 | 1 | ... | ... | 1 | ... | ... | ... | 1 | ... | 2 | ... | 1 | ... | 8 | | |
| Colored males | 1 | ... | 3 | ... | 2 | 3 | 2 | ... | 4 | ... | 4 | ... | ... | ... | 19 | 40 | 6.02 |
| females | ... | 3 | 6 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | ... | ... | ... | 1 | 21 | | |
| Total | 3 | 4 | 10 | 5 | 4 | 5 | 5 | 2 | 8 | 2 | 6 | 3 | 3 | 1 | 61 | 61 | ... |
| November, 1885: | | | | | | | | | | | | | | | | | |
| White males | ... | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | ... | ... | 1 | ... | 14 | 29 | 5.85 |
| females | 3 | ... | 5 | 1 | ... | 1 | ... | 1 | ... | ... | ... | 1 | 2 | ... | 15 | | |
| Colored males | 1 | 1 | 5 | 4 | 3 | 1 | 2 | ... | 2 | 1 | ... | 1 | 2 | ... | 23 | 43 | 6.47 |
| females | 2 | 3 | 4 | 1 | 3 | 1 | 1 | ... | 1 | 2 | ... | 1 | ... | 1 | 20 | | |
| Total | 6 | 5 | 17 | 8 | 8 | 4 | 4 | 2 | 5 | 4 | ... | 3 | 5 | 1 | 72 | 72 | ... |
| December, 1885: | | | | | | | | | | | | | | | | | |
| White males | 5 | 1 | 2 | ... | ... | 1 | 2 | 1 | ... | ... | ... | ... | ... | 1 | 13 | 23 | 4.65 |
| females | 2 | 1 | ... | ... | ... | 2 | 2 | ... | ... | ... | 1 | ... | ... | 1 | 10 | | |
| Colored males | 2 | 3 | 3 | 4 | 2 | ... | ... | ... | 1 | ... | ... | 1 | 2 | 2 | 20 | 36 | 5.42 |
| females | 1 | 2 | 2 | 1 | 1 | 3 | 2 | ... | 1 | 1 | ... | 1 | 1 | ... | 16 | | |
| Total | 10 | 7 | 7 | 5 | 3 | 6 | 6 | 1 | 2 | 1 | 1 | 2 | 4 | 4 | 59 | 59 | ... |
| January, 1886: | | | | | | | | | | | | | | | | | |
| White males | 3 | 2 | 5 | 1 | ... | 3 | 4 | 3 | ... | ... | 3 | ... | ... | ... | 24 | 41 | 8.26 |
| females | 3 | 2 | 4 | ... | 2 | 2 | ... | 2 | ... | ... | ... | 1 | ... | ... | 17 | | |
| Colored males | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 2 | 2 | ... | ... | ... | ... | ... | 16 | 45 | 6.77 |
| females | 4 | 4 | 3 | 2 | 2 | 1 | 3 | 2 | 3 | 1 | 1 | 3 | ... | ... | 29 | | |
| Total | 13 | 9 | 13 | 4 | 5 | 10 | 8 | 9 | 5 | 1 | 4 | 4 | ... | 1 | 86 | 86 | ... |
| February, 1886: | | | | | | | | | | | | | | | | | |
| White males | 3 | 5 | 5 | 2 | 1 | ... | 2 | ... | 2 | 2 | 1 | 1 | 1 | ... | 25 | 40 | 8.06 |
| females | 1 | 2 | 3 | 3 | 1 | ... | ... | ... | 1 | 1 | ... | 1 | ... | ... | 15 | | |
| Colored males | 5 | 2 | 4 | 1 | 2 | 2 | 1 | 6 | 2 | 2 | 1 | ... | 1 | ... | 29 | 46 | 6.93 |
| females | 8 | ... | ... | 2 | 1 | ... | 1 | ... | 2 | 2 | 1 | ... | ... | ... | 17 | | |
| Total | 17 | 9 | 12 | 8 | 5 | 2 | 6 | 6 | 7 | 7 | 3 | 2 | 2 | ... | 86 | 86 | ... |
| March, 1886: | | | | | | | | | | | | | | | | | |
| White males | 1 | ... | 2 | 2 | ... | 2 | ... | ... | 1 | ... | 1 | 2 | 2 | ... | 13 | 32 | 6.45 |
| females | 5 | ... | ... | 1 | ... | 4 | 3 | 1 | 1 | 1 | ... | 1 | ... | 1 | 19 | | |
| Colored males | 2 | 4 | 5 | 2 | 1 | 2 | 2 | 2 | ... | 1 | 1 | 1 | 1 | ... | 25 | 46 | 6.93 |
| females | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | ... | ... | 21 | | |
| Total | 11 | 7 | 10 | 6 | 4 | 10 | 7 | 4 | 3 | 3 | 4 | 5 | 3 | 1 | 78 | 78 | ... |

TABLE III.—Deaths under one year of age, &c.—Continued.

| | 1 day and under. | 1 day to 1 week. | 1 week to 1 month. | 1 to 2 months. | 2 to 3 months. | 3 to 4 months. | 4 to 5 months. | 5 to 6 months. | 6 to 7 months. | 7 to 8 months. | 8 to 9 months. | 9 to 10 months. | 10 to 11 months. | 11 to 12 months. | Total. | Total by color. | Percentage to total mortality under 1 year of age by color. |
|-----------------------|------------------|------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|--------|-----------------|---|
| April, 1886: | | | | | | | | | | | | | | | | | |
| White males | 3 | 2 | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 18 | 33 | 6.65 |
| White females | 2 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | | |
| Colored males | 4 | 6 | 6 | 4 | 5 | 4 | 5 | 3 | 3 | 2 | 2 | 2 | 2 | 39 | 58 | 8.73 | |
| Colored females | 3 | 2 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | 19 |
| Total | 12 | 6 | 13 | 1 | 6 | 10 | 11 | 8 | 4 | 1 | 5 | 4 | 5 | 5 | 91 | 91 | ..... |
| May, 1886: | | | | | | | | | | | | | | | | | |
| White males | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 20 | 4.03 |
| White females | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 3 | 1 | 2 | 1 | 1 | 1 | 6 | | |
| Colored males | 6 | 3 | 3 | 1 | 2 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 25 | 50 | 7.53 |
| Colored females | 5 | 1 | 2 | 1 | 1 | 2 | 4 | 1 | 2 | 1 | 3 | 3 | 3 | 3 | 25 | | |
| Total | 15 | 3 | 7 | 3 | 2 | 4 | 3 | 7 | 6 | 5 | 4 | 5 | 6 | 7 | 70 | 70 | ..... |
| June, 1886: | | | | | | | | | | | | | | | | | |
| White males | 4 | 5 | 1 | 1 | 2 | 2 | 4 | 4 | 5 | 6 | 1 | 1 | 1 | 1 | 35 | 60 | 12.10 |
| White females | 1 | 2 | 2 | 2 | 6 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 25 | | |
| Colored males | 6 | 5 | 3 | 1 | 5 | 1 | 4 | 3 | 3 | 5 | 2 | 2 | 2 | 2 | 32 | 65 | 9.80 |
| Colored females | 4 | 3 | 1 | 3 | 2 | 1 | 6 | 2 | 1 | 5 | 2 | 3 | 3 | 1 | 33 | | |
| Total | 15 | 15 | 5 | 2 | 5 | 15 | 7 | 13 | 11 | 10 | 13 | 5 | 8 | 1 | 125 | 125 | ..... |

RECAPITULATION.

| | 1 day and under. | 1 day to 1 week. | 1 week to 1 month. | 1 to 2 months. | 2 to 3 months. | 3 to 4 months. | 4 to 5 months. | 5 to 6 months. | 6 to 7 months. |
|---|------------------|------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Grand total | 131 | 96 | 148 | 82 | 86 | 109 | 97 | 81 | 75 |
| Per cent. to total mortality under 1 year | 11.30 | 8.28 | 12.76 | 7.01 | 7.41 | 9.41 | 8.37 | 7.00 | 6.47 |
| Total white males | 28 | 26 | 34 | 28 | 16 | 24 | 24 | 16 | 14 |
| Per cent. to total mortality under 1 year | 10.42 | 9.70 | 12.69 | 10.42 | 5.96 | 8.96 | 8.96 | 5.96 | 5.23 |
| Total white females | 24 | 16 | 28 | 9 | 16 | 30 | 21 | 15 | 12 |
| Per cent. to total mortality under 1 year | 10.53 | 7.02 | 12.28 | 3.95 | 7.02 | 13.17 | 9.20 | 6.58 | 5.26 |
| Total colored males | 39 | 22 | 53 | 24 | 23 | 34 | 25 | 24 | 26 |
| Per cent. to total mortality under 1 year | 11.34 | 6.40 | 15.40 | 7.00 | 6.68 | 9.88 | 7.25 | 7.00 | 7.54 |
| Total colored females | 40 | 31 | 34 | 21 | 31 | 21 | 27 | 26 | 23 |
| Per cent. to total mortality under 1 year | 12.50 | 9.70 | 10.64 | 6.56 | 9.70 | 6.56 | 8.45 | 8.13 | 7.20 |

| | 7 to 8 months. | 8 to 9 months. | 9 to 10 months. | 10 to 11 months. | 11 to 12 months. | Total. | Total by color. | Percentage to total mortality under 1 year of age by color. |
|---|----------------|----------------|-----------------|------------------|------------------|--------|-----------------|---|
| Grand total | 59 | 63 | 55 | 47 | 31 | 1,160 | | |
| Per cent. to total mortality under 1 year | 5.09 | 5.43 | 4.75 | 4.05 | 2.67 | 100 | | |
| Total white males | 14 | 20 | 11 | 8 | 5 | 268 | | 54.03 |
| Per cent. to total mortality under 1 year | 5.23 | 7.50 | 4.10 | 3.00 | 1.87 | | | |
| Total white females | 12 | 13 | 13 | 13 | 6 | 228 | 496 | 45.97 |
| Per cent. to total mortality under 1 year | 5.26 | 5.70 | 5.70 | 5.70 | 2.63 | | | |
| Total colored males | 21 | 13 | 14 | 15 | 11 | 344 | | 51.80 |
| Per cent. to total mortality under 1 year | 6.10 | 3.80 | 4.06 | 4.36 | 3.19 | | | |
| Total colored females | 12 | 17 | 17 | 11 | 9 | 320 | 664 | 48.20 |
| Per cent. to total mortality under 1 year | 3.72 | 5.30 | 5.30 | 3.44 | 2.80 | | | |

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TABLE IV.—Deaths: Number of deaths of children under five years of age from the principal diseases of children, year ending June 30, 1886.

| Diseases. | White. | | Colored. | |
|---|---------|---|----------|--|
| | Deaths. | Percentage to total mortality of whites under 5 years of age. | Deaths. | Percentage to total mortality of colored under 5 years of age. |
| Measles..... | 2 | 0.28 | 1 | 0.10 |
| Croup..... | 11 | 1.55 | 12 | 1.20 |
| Diphtheria..... | 18 | 2.55 | 19 | 1.90 |
| Scarlet fever..... | 26 | 3.67 | 11 | 1.10 |
| Typho-malarial fevers..... | 1 | 0.14 | 1 | 0.10 |
| Diarrheal diseases, except cholera infantum..... | 56 | 7.92 | 62 | 5.19 |
| Whooping cough..... | 16 | 2.25 | 44 | 4.39 |
| Imanition..... | 24 | 3.43 | 60 | 5.90 |
| Scrophula, tuberculosis, marasmus, and tabes, hydrocephalus and tuber- cular meningitis..... | 61 | 8.72 | 78 | 7.79 |
| Phthisis pulmonalis..... | 7 | 1.00 | 42 | 4.19 |
| Acute diseases of brain..... | 50 | 7.15 | 29 | 2.90 |
| Convulsions..... | 33 | 4.72 | 74 | 7.38 |
| Tetanus..... | 9 | 1.29 | 47 | 4.68 |
| Bronchitis and congestion of lungs..... | 24 | 3.43 | 83 | 8.28 |
| Pneumonia..... | 29 | 4.14 | 82 | 8.18 |
| Diseases of digestive organs..... | 78 | 11.15 | 68 | 6.78 |
| Developmental diseases of children..... | 106 | 15.16 | 113 | 11.28 |
| Accidents and negligence..... | 11 | 1.57 | 28 | 2.79 |
| All others..... | 139 | 19.88 | 148 | 14.78 |
| Total..... | 701 | 100.00 | 1,002 | 100.00 |
| Percentage to total mortality by color..... | | 28.70 | | 44.89 |
| Annual death rate by color..... | | 3.15 | | 14.52 |

TABLE V.—Number dying, twenty years of age and over, year ending June 30, 1886.

| Age. | White. | | Colored. | | Total. | Age. | White. | | Colored. | | Total. |
|----------------|--------|---------|----------|---------|--------|-------------------------|--------|---------|----------|---------|--------|
| | Male. | Female. | Male. | Female. | | | Male. | Female. | Male. | Female. | |
| 70 years..... | 12 | 11 | 1 | 1 | 45 | 87 years..... | 3 | 1 | 1 | 1 | 5 |
| 71 years..... | 12 | 11 | 1 | 1 | 22 | 88 years..... | 1 | 1 | 1 | 1 | 4 |
| 72 years..... | 12 | 11 | 1 | 1 | 36 | 89 years..... | 1 | 1 | 1 | 1 | 5 |
| 73 years..... | 14 | 11 | 1 | 1 | 31 | 90 years..... | 1 | 1 | 1 | 1 | 1 |
| 74 years..... | 4 | 11 | 1 | 1 | 25 | 91 years..... | 1 | 1 | 1 | 1 | 1 |
| 75 years..... | 13 | 11 | 1 | 1 | 28 | 92 years..... | 1 | 1 | 1 | 1 | 5 |
| 76 years..... | 13 | 11 | 1 | 1 | 46 | 93 years..... | 1 | 1 | 1 | 1 | 4 |
| 77 years..... | 3 | 9 | 1 | 1 | 14 | 94 years..... | 1 | 1 | 1 | 1 | 1 |
| 78 years..... | 3 | 9 | 1 | 1 | 14 | 95 years..... | 1 | 1 | 1 | 1 | 4 |
| 79 years..... | 3 | 9 | 1 | 1 | 14 | 96 years..... | 1 | 1 | 1 | 1 | 1 |
| 80 years..... | 3 | 9 | 1 | 1 | 15 | 97 years..... | 1 | 1 | 1 | 1 | 1 |
| 81 years..... | 3 | 9 | 1 | 1 | 15 | 98 years..... | 1 | 1 | 1 | 1 | 1 |
| 82 years..... | 3 | 9 | 1 | 1 | 15 | 99 years..... | 1 | 1 | 1 | 1 | 1 |
| 83 years..... | 3 | 9 | 1 | 1 | 15 | 100 years and over..... | 1 | 1 | 1 | 1 | 11 |
| 84 years..... | 3 | 9 | 1 | 1 | 15 | Total..... | 148 | 173 | 88 | 108 | 517 |
| 85 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 86 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 87 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 88 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 89 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 90 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 91 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 92 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 93 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 94 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 95 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 96 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 97 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 98 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 99 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| 100 years..... | 3 | 9 | 1 | 1 | 15 | | | | | | |
| Total..... | 4 | 4 | 1 | 1 | 17 | | | | | | |

TABLE VI.—Average age in years of decedents dying from eighteen different diseases, and from suicide, during the year ending June 30, 1886.

| Diseases. | White. | | | | Colored. | | | |
|------------------------------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
| | Male. | | Female. | | Male. | | Female. | |
| | Total deaths. | Years. | Total deaths. | Years. | Total deaths. | Years. | Total deaths. | Years. |
| | | | | | | | | |
| Consumption | 180 | 37 | 174 | 34 | 191 | 34 | 251 | 26 |
| Typhoid fever | 46 | 24 | 35 | 26 | 24 | 24 | 23 | 23 |
| Apoplexy | 40 | 58 | 34 | 51 | 22 | 62 | 29 | 56 |
| Insanity | 68 | 49 | 16 | 50 | 11 | 36 | 6 | 33 |
| Softening of the brain | 9 | 67 | 5 | 61 | 1 | 85 | 2 | 58 |
| Paralysis | 14 | 63 | 10 | 70 | 10 | 52 | 10 | 62 |
| Cancer | 26 | 59 | 52 | 55 | 4 | 51 | 19 | 48 |
| Epilepsy | 4 | 25 | 2 | 13 | 1 | 15 | 2 | 51 |
| Disease of heart | 71 | 55 | 47 | 59 | 41 | 49 | 74 | 47 |
| Bright's disease | 19 | 49 | 13 | 44 | 13 | 47 | 8 | 48 |
| Rheumatism | 21 | 58 | 6 | 28 | 4 | 42 | 2 | 57 |
| Aneurisms | 8 | 47 | 1 | 65 | 2 | 39 | 2 | 48 |
| Angina pectoris | 4 | 67 | 1 | 65 | 1 | 45 | 1 | 67 |
| Gastritis | 8 | 49 | 17 | 36 | 2 | 42 | 5 | 18 |
| Cirrhosis of liver | 9 | 45 | 5 | 56 | 2 | 55 | 1 | 23 |
| Dropsies | 5 | 48 | 3 | 56 | 6 | 40 | 8 | 30 |
| Diabetes | 5 | 49 | 6 | 46 | 1 | 60 | ----- | ----- |
| Hernia | 4 | 43 | 2 | 52 | 2 | 48 | ----- | ----- |
| Suicides | 13 | 39 | 1 | 41 | 2 | 26 | 1 | 30 |

TABLE VII.—Deaths: Number of deaths occurring in the hospital and other public institutions during the year ending June 30, 1886.

| Hospitals, &c. | White. | | Colored. | | Total |
|--|--------|---------|----------|---------|-------|
| | Male. | Female. | Male. | Female. | |
| Academy of the Sacred Heart of Mary | ----- | 1 | ----- | ----- | 1 |
| Aged Womens' Home | ----- | 1 | ----- | ----- | 1 |
| Barnes Hospital, Soldier's Home | 31 | ----- | 1 | ----- | 32 |
| Children's Hospital | 1 | 5 | 9 | 4 | 19 |
| Columbia Hospital | ----- | 5 | 2 | 4 | 11 |
| Convent of the Visitation, Georgetown | ----- | 3 | ----- | ----- | 3 |
| Colored Orphans' Home | ----- | ----- | ----- | 3 | 3 |
| Central Dispensary | 1 | ----- | ----- | ----- | 1 |
| Epiphany Church Home | ----- | 1 | ----- | ----- | 1 |
| Engine House No 1 | 1 | ----- | ----- | ----- | 1 |
| Freedmen's Hospital | 22 | 8 | 103 | 79 | 212 |
| Garfield Memorial Hospital | 13 | 6 | ----- | ----- | 19 |
| Government Insane Hospital | 72 | 17 | 10 | 7 | 106 |
| Georgetown College Infirmary | 5 | ----- | ----- | ----- | 5 |
| Government Printing Office | 1 | ----- | ----- | ----- | 1 |
| Home for the Aged | 6 | 6 | ----- | 3 | 21 |
| Homeopathic Hospital | 2 | ----- | 6 | ----- | 8 |
| House of the Good Shepherd | ----- | 1 | ----- | ----- | 1 |
| Howard University | ----- | ----- | 1 | ----- | 1 |
| Home for Destitute Women and Children | ----- | ----- | ----- | 1 | 1 |
| Industrial Home School | 1 | ----- | ----- | ----- | 1 |
| Jail, United States | 2 | ----- | 1 | ----- | 3 |
| Little Sisters of the Poor | 2 | 1 | ----- | ----- | 3 |
| Marine Barracks Hospital | 1 | ----- | ----- | ----- | 1 |
| Naval Hospital | 3 | ----- | ----- | ----- | 3 |
| Providence Hospital | 57 | 24 | 9 | 3 | 93 |
| St. Ann's Infant Asylum | 28 | 12 | 9 | 14 | 63 |
| St. Joseph's Orphan Asylum | 1 | ----- | ----- | ----- | 1 |
| Stations of the Police | 5 | 1 | 2 | ----- | 8 |
| Washington Barracks Hospital | 3 | ----- | ----- | ----- | 3 |
| Washington Asylum Hospital | 16 | 10 | 20 | 23 | 69 |
| Washington City Orphan Asylum | ----- | 2 | ----- | ----- | 2 |
| Washington City Protestant Orphan Asylum | ----- | 2 | ----- | ----- | 2 |
| Women's Christian Association Home | ----- | 1 | ----- | ----- | 1 |
| Wayland Seminary | ----- | ----- | ----- | 1 | 1 |
| Total | 274 | 108 | 173 | 142 | 697 |

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TABLE VIII.—Deaths: Deaths and average ages, year ending June 30, 1886.

WHITE MALES.

| Months. | All ages. | | | 5 years and over. | | | 20 years and over. | | | 40 years and over. | | |
|-----------|---------------|---------------|---------|-------------------|---------------|---------------|--------------------|-------|---------------|--------------------|---------|-------|
| | Total deaths. | Average ages. | | | Total deaths. | Average ages. | | | Total deaths. | Average ages. | | |
| | | Years. | Months. | Days. | | Years. | Months. | Days. | | Years. | Months. | Days. |
| 1885. | | | | | | | | | | | | |
| July | 166 | 30 | 2 | 29 | 105 | 47 | 5 | 6 | 90 | 53 | 5 | 28 |
| August | 92 | 33 | 1 | 6 | 67 | 48 | 2 | 10 | 61 | 51 | 11 | 6 |
| September | 112 | 29 | 2 | 9 | 72 | 44 | 2 | 2 | 62 | 53 | 4 | 0 |
| October | 76 | 32 | 9 | 26 | 58 | 42 | 2 | 18 | 52 | 50 | 7 | 18 |
| November | 85 | 41 | 12 | 19 | 65 | 33 | 2 | 24 | 62 | 55 | 6 | 3 |
| December | 110 | 33 | 11 | 22 | 86 | 43 | 0 | 20 | 73 | 48 | 6 | 24 |
| 1886. | | | | | | | | | | | | |
| January | 125 | 33 | 2 | 24 | 91 | 45 | 3 | 15 | 72 | 52 | 4 | 10 |
| February | 100 | 32 | 10 | 11 | 66 | 49 | 3 | 10 | 52 | 53 | 10 | 8 |
| March | 131 | 40 | 1 | 28 | 109 | 48 | 0 | 9 | 100 | 52 | 9 | 21 |
| April | 107 | 40 | 5 | 26 | 91 | 47 | 2 | 20 | 75 | 56 | 5 | 19 |
| May | 92 | 32 | 2 | 27 | 73 | 48 | 2 | 15 | 68 | 51 | 4 | 6 |
| June | 110 | 29 | 1 | 1 | 66 | 48 | 0 | 3 | 62 | 52 | 3 | 9 |
| Total | 1,312 | 34 | 7 | 3 | 949 | 47 | 2 | 6 | 841 | 52 | 10 | 4 |

WHITE FEMALES.

| | | | | | | | | | | | | | | | |
|-----------|-------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|
| 1885. | | | | | | | | | | | | | | | |
| July | 158 | 27 | 0 | 1 | 88 | 47 | 11 | 13 | 78 | 51 | 0 | 5 | 47 | 66 | 2 |
| August | 112 | 31 | 9 | 5 | 77 | 45 | 10 | 2 | 66 | 48 | 4 | 1 | 41 | 64 | 1 |
| September | 82 | 31 | 0 | 8 | 55 | 45 | 7 | 2 | 45 | 55 | 8 | 28 | 29 | 65 | 7 |
| October | 83 | 32 | 3 | 29 | 66 | 43 | 7 | 14 | 55 | 53 | 0 | 5 | 38 | 66 | 3 |
| November | 73 | 32 | 11 | 21 | 54 | 44 | 3 | 25 | 46 | 46 | 5 | 20 | 30 | 61 | 1 |
| December | 85 | 35 | 7 | 29 | 68 | 44 | 3 | 4 | 60 | 45 | 11 | 0 | 33 | 63 | 6 |
| 1886. | | | | | | | | | | | | | | | |
| January | 100 | 36 | 2 | 29 | 73 | 49 | 11 | 9 | 61 | 53 | 1 | 6 | 45 | 63 | 7 |
| February | 96 | 40 | 2 | 2 | 73 | 51 | 9 | 11 | 69 | 51 | 2 | 0 | 52 | 64 | 1 |
| March | 115 | 36 | 2 | 21 | 91 | 46 | 3 | 11 | 78 | 52 | 2 | 9 | 49 | 64 | 1 |
| April | 77 | 36 | 10 | 29 | 56 | 50 | 5 | 11 | 53 | 50 | 11 | 1 | 37 | 65 | 7 |
| May | 66 | 41 | 0 | 14 | 55 | 44 | 4 | 27 | 50 | 46 | 11 | 17 | 29 | 61 | 1 |
| June | 88 | 26 | 0 | 3 | 47 | 45 | 4 | 13 | 41 | 52 | 8 | 5 | 28 | 61 | 3 |
| Total | 1,130 | 34 | 6 | 4 | 803 | 46 | 7 | 9 | 702 | 50 | 7 | 7 | 458 | 63 | 10 |

COLORED MALES.

| | | | | | | | | | | | | | | | |
|-----------|-------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|
| 1885. | | | | | | | | | | | | | | | |
| July | 128 | 18 | 4 | 16 | 51 | 44 | 10 | 17 | 40 | 56 | 9 | 16 | 27 | 64 | 5 |
| August | 91 | 17 | 11 | 20 | 40 | 39 | 10 | 3 | 29 | 52 | 6 | 25 | 19 | 61 | 8 |
| September | 82 | 23 | 8 | 11 | 45 | 42 | 2 | 16 | 37 | 47 | 10 | 26 | 21 | 63 | 10 |
| October | 79 | 24 | 5 | 9 | 46 | 41 | 1 | 17 | 38 | 47 | 5 | 1 | 28 | 53 | 7 |
| November | 86 | 22 | 2 | 17 | 46 | 40 | 7 | 15 | 35 | 48 | 4 | 3 | 22 | 60 | 3 |
| December | 70 | 22 | 3 | 22 | 43 | 45 | 8 | 9 | 36 | 54 | 10 | 27 | 27 | 50 | 11 |
| 1886. | | | | | | | | | | | | | | | |
| January | 59 | 21 | 7 | 18 | 34 | 36 | 10 | 6 | 24 | 50 | 5 | 14 | 16 | 53 | 0 |
| February | 94 | 27 | 1 | 20 | 54 | 46 | 7 | 16 | 47 | 49 | 8 | 25 | 30 | 63 | 5 |
| March | 98 | 22 | 10 | 27 | 56 | 39 | 4 | 11 | 45 | 49 | 0 | 23 | 27 | 76 | 6 |
| April | 106 | 22 | 12 | 6 | 53 | 42 | 2 | 10 | 43 | 48 | 2 | 2 | 24 | 63 | 9 |
| May | 81 | 26 | 7 | 17 | 47 | 44 | 4 | 17 | 36 | 53 | 6 | 4 | 26 | 63 | 11 |
| June | 101 | 23 | 3 | 13 | 59 | 39 | 4 | 21 | 48 | 40 | 3 | 11 | 30 | 55 | 8 |
| Total | 1,077 | 22 | 4 | 9 | 574 | 41 | 11 | 2 | 458 | 49 | 11 | 2 | 297 | 61 | 8 |

COLORED FEMALES.

| | | | | | | | | | | | | | | | |
|-----------|-------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|---|
| 1885. | | | | | | | | | | | | | | | |
| July | 143 | 16 | 6 | 12 | 62 | 41 | 10 | 15 | 50 | 46 | 0 | 5 | 28 | 62 | 5 |
| August | 97 | 19 | 3 | 24 | 48 | 38 | 4 | 22 | 32 | 43 | 9 | 26 | 21 | 62 | 4 |
| September | 91 | 24 | 2 | 4 | 52 | 41 | 1 | 8 | 41 | 47 | 9 | 33 | 26 | 62 | 6 |
| October | 83 | 23 | 12 | 12 | 54 | 37 | 3 | 8 | 44 | 40 | 5 | 2 | 20 | 66 | 4 |
| November | 83 | 23 | 7 | 12 | 47 | 44 | 3 | 8 | 39 | 45 | 9 | 16 | 25 | 64 | 4 |
| December | 91 | 22 | 6 | 2 | 57 | 36 | 6 | 15 | 46 | 42 | 2 | 10 | 20 | 60 | 2 |
| 1886. | | | | | | | | | | | | | | | |
| January | 94 | 20 | 6 | 24 | 49 | 38 | 10 | 12 | 38 | 40 | 1 | 3 | 21 | 59 | 9 |
| February | 100 | 20 | 0 | 19 | 74 | 43 | 6 | 8 | 60 | 49 | 11 | 4 | 28 | 63 | 9 |
| March | 94 | 22 | 3 | 23 | 51 | 30 | 11 | 17 | 45 | 51 | 8 | 25 | 29 | 63 | 2 |
| April | 98 | 21 | 4 | 6 | 52 | 34 | 6 | 1 | 28 | 42 | 5 | 25 | 16 | 65 | 7 |
| May | 81 | 23 | 5 | 12 | 38 | 40 | 10 | 1 | 44 | 47 | 4 | 20 | 22 | 62 | 1 |
| June | 94 | 21 | 8 | 5 | 48 | 41 | 5 | 11 | 39 | 44 | 6 | 25 | 24 | 61 | 6 |
| Total | 1,153 | 23 | 6 | 25 | 632 | 40 | 9 | 6 | 516 | 45 | 2 | 8 | 297 | 62 | 4 |

TABLE VIII.—Recapitulation.

| | All Ages. | | 5 years and over. | | 20 years and over. | | 40 years and over. | |
|------------------------|---------------|--|-------------------|--|--------------------|--|--------------------|--|
| | Total deaths. | Average ages in years, months, and days. | Total deaths. | Average ages in years, months, and days. | Total deaths. | Average ages in years, months, and days. | Total deaths. | Average ages in years, months, and days. |
| White..... { Male..... | 1,312 | Y. M. D. 34 7 3 | 949 | Y. M. D. 47 2 6 | 841 | Y. M. D. 52 10 4 | 610 | Y. M. D. 59 9 6 |
| { Female..... | 1,130 | 34 6 4 | 803 | 46 7 9 | 702 | 50 7 7 | 458 | 63 10 25 |
| Total..... | 2,442 | 34 6 19 | 1,752 | 46 10 22 | 1,543 | 51 8 22 | 1,068 | 61 10 1 |
| Colored... { Male..... | 1,077 | 22 4 9 | 574 | 41 11 2 | 458 | 49 11 2 | 297 | 61 8 5 |
| { Female..... | 1,155 | 23 6 25 | 632 | 40 9 6 | 516 | 45 2 8 | 297 | 62 4 22 |
| Total..... | 2,232 | 22 11 17 | 1,226 | 41 4 4 | 974 | 47 6 20 | 594 | 62 0 14 |
| White..... | 2,442 | 34 6 19 | 1,752 | 46 10 22 | 1,543 | 51 8 22 | 1,068 | 61 10 1 |
| Colored..... | 2,232 | 22 11 17 | 1,226 | 41 4 4 | 974 | 47 6 20 | 594 | 62 0 14 |
| Grand total..... | 4,674 | 28 9 3 | 2,978 | 44 2 13 | 2,517 | 49 7 21 | 1,662 | 61 11 7 |

TABLE IX.—Cemeteries and number of decedents buried in each, year ending June 30, 1886.

| Cemeteries. | White. | Colored. | Total. | Cemeteries. | White. | Colored. | Total. |
|-----------------------------|--------|----------|--------|---------------------------------------|--------|----------|--------|
| Adas Israel..... | 6 | ..... | 6 | Mount Zion..... | ..... | 130 | 130 |
| Addison's Chapel..... | 1 | ..... | 1 | National..... | 34 | 1 | 35 |
| Baptist Cemetery..... | ..... | 8 | 8 | Oak Hill..... | 165 | ..... | 165 |
| Brightwood..... | ..... | 9 | 9 | Outside the District of Columbia..... | 322 | 91 | 413 |
| Congressional..... | 414 | ..... | 414 | Payne's Cemetery..... | ..... | 162 | 162 |
| Convent of Visitation..... | 3 | ..... | 3 | Potter's Field..... | 39 | 285 | 324 |
| Christian (Chappell's)..... | ..... | 1 | 1 | Presbyterian..... | 41 | ..... | 41 |
| Carroll Chapel..... | 5 | ..... | 5 | Private Grounds..... | 9 | 18 | 27 |
| Georgetown College..... | 6 | ..... | 6 | Prospect Hill..... | 126 | ..... | 126 |
| Glenwood..... | 272 | ..... | 272 | Rock Creek..... | 119 | ..... | 119 |
| Good Hope..... | 1 | 3 | 4 | Saint Mary's..... | 45 | ..... | 45 |
| Graceland..... | 62 | 263 | 325 | Seaggs'..... | 1 | 3 | 4 |
| Hillsdale..... | ..... | 52 | 52 | Soldiers' Home..... | 3 | ..... | 3 |
| Holyrood..... | 87 | 19 | 106 | Saint Albans..... | 1 | 1 | 2 |
| Harmony..... | ..... | 389 | 389 | Tennallytown..... | 11 | 2 | 13 |
| Insane Asylum..... | 58 | 10 | 68 | Washington Hebrew..... | 12 | ..... | 12 |
| Industrial Home School..... | 1 | ..... | 1 | Washington Asylum..... | 8 | 3 | 11 |
| Jones' Chapel..... | ..... | 6 | 6 | Total..... | 2,442 | 2,232 | 4,674 |
| Methodist..... | 27 | ..... | 27 | | | | |
| Mount Olivet..... | 563 | 176 | 739 | | | | |
| Mount Pleasant..... | ..... | 600 | 600 | | | | |

564 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

TABLE X.—Showing the daily mortality, divided under twenty-eight heads, classified by color, thirteen heads. All deaths by violence are

JULY, 1885.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|-----------|----------|--|--|---------------------------------------|--|---|----------------|---------------------|----------------|-----------------------|------------------|--------------|------------|-------------|----------------------|-----------|-------------------|---------------------------------|-------------|-------------------------------|---------------------|------------------------|---------------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | Total deaths, less those by violence. | Deaths by violence. | | | Deaths by ages. | | | | | Scarlet fever. | Diarrheal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fevers. | Consumption. | Pneumonia. | Bronchitis. | Congestion of lungs. | Pleurisy. | Nervous diseases. | Diseases of circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths by color. | Total deaths. | | | | | | | | | | | | | | | | | | |
| | | | Accidents and negligence. | Homicide. | Suicide. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One day old and under, less those by violence. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | W. C. | 5 | | | | 12 | 2 | 1 | | | | | | | | | | | | | | | | | | | | 15 | | | | | | | | | | | | | | | | | |
| 2 | W. C. | 9 | 1 | | | 4 | 4 | 5 | | | | 3 | | | | | | | | | | | | | | | | 20 | | | | | | | | | | | | | | | | | |
| 3 | W. C. | 8 | | | | 1 | 1 | 7 | | | | 4 | | | | | | | | | | | | | | | | 19 | | | | | | | | | | | | | | | | | |
| 4 | W. C. | 9 | | 1 | | 2 | 2 | 4 | | | | 3 | | | | | | | | | | | | | | | | 18 | | | | | | | | | | | | | | | | | |
| 5 | W. C. | 8 | 1 | | | 1 | 3 | 6 | | | | 4 | | | | | | | | | | | | | | | | 19 | | | | | | | | | | | | | | | | | |
| 6 | W. C. | 10 | | | | 1 | 5 | 1 | | | | 3 | | | | | | | | | | | | | | | | 19 | | | | | | | | | | | | | | | | | |
| 7 | W. C. | 9 | | | | 2 | 4 | 4 | | | | 3 | | | | | | | | | | | | | | | | 19 | | | | | | | | | | | | | | | | | |
| 8 | W. C. | 8 | | | | 2 | 2 | 4 | | | | 4 | | | | | | | | | | | | | | | | 17 | | | | | | | | | | | | | | | | | |
| 9 | W. C. | 6 | | | | 1 | 2 | 1 | | | | 2 | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | |
| 10 | W. C. | 11 | | | | 2 | 5 | 1 | | | | 1 | | | | | | | | | | | | | | | | 24 | | | | | | | | | | | | | | | | | |
| 11 | W. C. | 10 | 1 | | | 1 | 1 | 1 | | | | 1 | | | | | | | | | | | | | | | | 26 | | | | | | | | | | | | | | | | | |
| 12 | W. C. | 13 | | | | 2 | 3 | 7 | | | | 3 | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | |
| 13 | W. C. | 3 | | | | 1 | 4 | 4 | | | | 4 | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | |
| 14 | W. C. | 7 | | | | 1 | 4 | 1 | | | | 2 | | | | | | | | | | | | | | | | 10 | | | | | | | | | | | | | | | | | |
| 15 | W. C. | 13 | 1 | | | 1 | 7 | 2 | | | | 3 | | | | | | | | | | | | | | | | 24 | | | | | | | | | | | | | | | | | |
| 16 | W. C. | 10 | | | | 1 | 6 | 1 | | | | 3 | | | | | | | | | | | | | | | | 15 | | | | | | | | | | | | | | | | | |
| 17 | W. C. | 5 | | | | 1 | 3 | | | | | 2 | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | |
| 18 | W. C. | 8 | 2 | | | 4 | 2 | 2 | | | | 1 | | | | | | | | | | | | | | | | 19 | | | | | | | | | | | | | | | | | |
| 19 | W. C. | 10 | | | | 1 | 6 | 1 | | | | 1 | | | | | | | | | | | | | | | | 13 | | | | | | | | | | | | | | | | | |
| 20 | W. C. | 6 | | | | 1 | 6 | | | | | 1 | | | | | | | | | | | | | | | | 29 | | | | | | | | | | | | | | | | | |
| 21 | W. C. | 11 | | | | 1 | 9 | 1 | | | | 2 | | | | | | | | | | | | | | | | 31 | | | | | | | | | | | | | | | | | |
| 22 | W. C. | 17 | 2 | | | 5 | 6 | | | | | 3 | | | | | | | | | | | | | | | | 23 | | | | | | | | | | | | | | | | | |
| 23 | W. C. | 12 | | | | 1 | 5 | 2 | | | | 2 | | | | | | | | | | | | | | | | 25 | | | | | | | | | | | | | | | | | |
| 24 | W. C. | 9 | 1 | | | 3 | 3 | 9 | | | | 5 | | | | | | | | | | | | | | | | 18 | | | | | | | | | | | | | | | | | |
| 25 | W. C. | 10 | | | | 1 | 4 | 4 | | | | 3 | | | | | | | | | | | | | | | | 20 | | | | | | | | | | | | | | | | | |
| 26 | W. C. | 8 | | | | 3 | 5 | | | | | 1 | | | | | | | | | | | | | | | | 27 | | | | | | | | | | | | | | | | | |
| 27 | W. C. | 10 | 1 | | | 2 | 6 | 1 | | | | 3 | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | |
| 28 | W. C. | 8 | | | | 1 | 4 | 4 | | | | 1 | | | | | | | | | | | | | | | | 13 | | | | | | | | | | | | | | | | | |
| 29 | W. C. | 19 | | | | 1 | 5 | 8 | | | | 6 | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | |
| 30 | W. C. | 8 | | | | 1 | 4 | 2 | | | | 1 | | | | | | | | | | | | | | | | 27 | | | | | | | | | | | | | | | | | |
| 31 | W. C. | 15 | | | | 3 | 4 | 1 | | | | 1 | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | |
| | W. C. | 11 | | | | 2 | 7 | 2 | | | | 2 | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | |
| | W. C. | 6 | | | | 2 | 2 | | | | | 4 | | | | | | | | | | | | | | | | 13 | | | | | | | | | | | | | | | | | |
| | W. C. | 8 | | | | 3 | 6 | 2 | | 2 | | 3 | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | |
| | W. C. | 7 | | | | 2 | 4 | 1 | | | | 1 | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | |
| | W. C. | 12 | 1 | | | 1 | 3 | 8 | | 1 | | 1 | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | |
| | W. C. | 3 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total. | W. C. | 311 | 8 | 2 | 3 | 61 | 130 | 12 | 3 | 7 | 71 | 12 | 1 | 3 | 34 | 5 | 4 | 1 | 1 | 48 | 2 | 6 | 41 | 76 | 324 | | 595 | | | | | | | | | | | | | | | | | | |
| Means. | W. C. | 263 | 6 | 1 | 1 | 31 | 157 | 12 | 8 | 4 | 71 | 7 | 1 | 40 | 4 | 4 | 1 | 1 | 30 | 13 | 6 | 11 | 77 | 271 | | | | | | | | | | | | | | | | | | | | | |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 565

different diseases, and ages; also daily meteorological conditions and variations divided under included. Year ending June 30, 1886.

JULY, 1885.

Meteorological conditions.

| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
|-----------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|-----------------|---------------|
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 29.882 | 48.7 | 67.2 | 77.3 | 54.1 | 23.2 | 56.5 | 46.1 | NW. | W. | W. | 198 | ..... | 1 |
| 29.875 | 60.7 | 65.6 | 74.5 | 60.0 | 14.5 | 57.7 | 50.8 | NW. | NW. | NW. | 111 | *(-) | 2 |
| 29.944 | 63.3 | 70.5 | 81.2 | 59.7 | 21.5 | 62.3 | 56.4 | ..... | W. | W. | 87 | ..... | 3 |
| 29.980 | 67.7 | 73.5 | 85.4 | 61.2 | 24.2 | 65.6 | 60.3 | ..... | S. | ..... | 48 | ..... | 4 |
| 30.048 | 78.7 | 74.1 | 82.5 | 65.1 | 17.4 | 69.2 | 66.5 | ..... | S. | S. | 100 | .25 | 5 |
| 30.056 | 81.0 | 77.0 | 85.6 | 68.5 | 17.1 | 72.6 | 70.3 | ..... | S. | S. | 96 | ..... | 6 |
| 30.024 | 66.7 | 60.2 | 88.3 | 71.7 | 16.6 | 71.7 | 66.6 | ..... | NW. | ..... | 90 | *(-) | 7 |
| 30.083 | 61.7 | 81.7 | 92.8 | 71.9 | 20.9 | 71.7 | 65.8 | N. | S. | SW. | 87 | ..... | 8 |
| 29.957 | 64.0 | 83.0 | 94.2 | 70.9 | 23.3 | 73.6 | 68.9 | ..... | S. | S. | 111 | ..... | 9 |
| 29.865 | 68.0 | 77.4 | 90.0 | 72.8 | 17.2 | 70.2 | 65.8 | ..... | SE. | NW. | 82 | .25 | 10 |
| 30.002 | 67.3 | 74.7 | 82.6 | 69.0 | 13.6 | 67.4 | 62.6 | NE. | NW. | ..... | 111 | ..... | 11 |
| 30.005 | 56.3 | 73.1 | 82.0 | 64.7 | 17.3 | 63.2 | 55.8 | NE. | N. | SE. | 119 | ..... | 12 |
| 29.926 | 86.0 | 68.7 | 74.5 | 64.4 | 10.1 | 66.0 | 64.4 | SE. | S. | S. | 94 | .08 | 13 |
| 29.765 | 73.7 | 72.6 | 85.4 | 64.5 | 20.9 | 66.3 | 62.1 | NW. | NW. | ..... | 107 | .15 | 14 |
| 29.962 | 66.0 | 76.1 | 86.0 | 61.2 | 24.8 | 67.9 | 62.7 | NW. | S. | S. | 83 | ..... | 15 |
| 30.089 | 66.3 | 80.9 | 92.7 | 69.0 | 23.7 | 72.0 | 67.0 | S. | S. | S. | 116 | ..... | 16 |
| 30.103 | 61.3 | 83.2 | 96.0 | 70.1 | 25.9 | 72.8 | 67.3 | SW. | S. | S. | 94 | ..... | 17 |
| 30.014 | 64.0 | 85.0 | 99.1 | 72.3 | 26.8 | 74.9 | 69.7 | S. | SW. | NE. | 89 | ..... | 18 |
| 29.966 | 71.7 | 81.5 | 93.5 | 71.3 | 22.2 | 74.2 | 70.7 | N. | E. | SE. | 132 | .63 | 19 |
| 29.958 | 68.0 | 82.7 | 94.1 | 71.7 | 22.4 | 74.3 | 69.8 | SW. | S. | S. | 95 | ..... | 20 |
| 29.914 | 59.3 | 85.5 | 95.8 | 74.1 | 21.7 | 74.4 | 68.7 | SW. | S. | W. | 121 | .08 | 21 |
| 30.021 | 60.0 | 83.9 | 94.8 | 77.0 | 17.8 | 73.1 | 66.9 | N. | NE. | SW. | 111 | ..... | 22 |
| 30.133 | 68.7 | 81.0 | 88.3 | 73.5 | 14.8 | 73.2 | 69.1 | E. | SE. | SE. | 116 | ..... | 23 |
| 30.066 | 74.0 | 82.3 | 90.8 | 75.2 | 15.6 | 75.7 | 72.5 | SE. | S. | SW. | 104 | *(-) | 24 |
| 29.914 | 70.3 | 85.0 | 94.6 | 74.9 | 19.7 | 77.2 | 73.7 | SW. | S. | NW. | 86 | ..... | 25 |
| 29.951 | 78.3 | 80.2 | 96.7 | 72.4 | 24.3 | 74.9 | 72.3 | NW. | NW. | NE. | 102 | .57 | 26 |
| 30.050 | 87.3 | 74.4 | 77.6 | 71.9 | 5.7 | 71.7 | 70.3 | NE. | NE. | NE. | 122 | .98 | 27 |
| 29.972 | 83.7 | 75.7 | 81.6 | 70.9 | 10.7 | 72.1 | 70.1 | NE. | E. | ..... | 95 | *(-) | 28 |
| 29.838 | 75.3 | 78.9 | 89.7 | 71.6 | 18.1 | 72.8 | 69.7 | SE. | NW. | NW. | 93 | *(-) | 29 |
| 29.841 | 63.7 | 77.4 | 86.0 | 69.7 | 16.3 | 68.7 | 63.3 | N. | N. | SW. | 118 | ..... | 30 |
| 29.865 | 69.7 | 79.3 | 91.0 | 68.0 | 23.0 | 71.3 | 66.7 | S. | NE. | S. | 64 | .04 | 31 |
| 920.669 | 2131.4 | 2412.3 | 2724.6 | 2133.3 | 591.3 | 2175.2 | 2032.9 | ..... | ..... | ..... | 3,182 | 3.03 | |
| 29.970 | 68.8 | 77.8 | 87.9 | 68.8 | 19.1 | 70.2 | 65.6 | NW. | S. | S. | 102.6 | 0.098 | |

* Dash (-) in rainfall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.

AUGUST, 1885.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------|---------------------------|----------|--|--|---------------------------------------|--|----------------|-------------|---------------------|----------------|-----------------------|------------------|--------------|------------|-------------|----------------------|-------------------|---------------------------------|-------------------------------|---------------------|-------------------------|---------------|--|--|
| | | Total deaths, less those by violence. | Deaths by violence. | Accidents and negligence. | Suicide. | Deaths by ages. | | | | | Diphtheria. | Diarrhæal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fevers. | Consumption. | Pneumonia. | Bronchitis. | Congestion of lungs. | Nervous diseases. | Diseases of circulatory organs. | Diseases of digestive organs. | All other diseases. | Total deaths, by color. | Total deaths. | | |
| | | | | | | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 5 days, less those by violence. | One day old and under, less those by violence. | Scarlet fever. | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | W. C. | 7 | 1 | | | 1 | 3 | | | | 4 | 2 | 1 | 1 | | 2 | 1 | | | | | 1 | 4 | 7 | 16 | | |
| 2. | W. C. | 5 | 1 | | | 1 | 2 | | | | 2 | 1 | 1 | 1 | | 1 | | | | | | 3 | 5 | 11 | | | |
| 3. | W. C. | 6 | | | | 1 | 4 | 1 | | | 1 | 2 | 1 | 1 | | 1 | | | | | | 3 | 6 | 15 | | | |
| 4. | W. C. | 9 | | | | 1 | 3 | | | | 2 | 2 | 2 | 2 | | 2 | | | | | | 1 | 5 | 14 | | | |
| 5. | W. C. | 5 | | | | | 5 | | | | 1 | 2 | 1 | 1 | | 2 | | | | | | 1 | 1 | 12 | | | |
| 6. | W. C. | 8 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 3 | | | | | | 1 | 4 | 12 | | | |
| 7. | W. C. | 7 | | | | | 2 | 1 | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 1 | 3 | 17 | | | |
| 8. | W. C. | 10 | | | | | 1 | | | | 2 | 1 | 1 | 1 | | 1 | | 1 | | | | 2 | 10 | 14 | | | |
| 9. | W. C. | 4 | | | | | 2 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 3 | 7 | 6 | | | |
| 10. | W. C. | 2 | | | | 1 | 2 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 2 | 4 | 11 | | | |
| 11. | W. C. | 4 | | | | | 1 | | | | 2 | 3 | 1 | 1 | | 3 | | 1 | | | | 1 | 5 | 23 | | | |
| 12. | W. C. | 7 | | | | | 1 | 1 | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 2 | 8 | 7 | | | |
| 13. | W. C. | 3 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 1 | 3 | 14 | | | |
| 14. | W. C. | 5 | | | | | 2 | | | | 1 | 2 | 2 | 2 | | 2 | | 1 | | | | 3 | 6 | 16 | | | |
| 15. | W. C. | 6 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 2 | 10 | 6 | | | |
| 16. | W. C. | 1 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 1 | 2 | 10 | | | |
| 17. | W. C. | 3 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 2 | | 1 | | | | 2 | 7 | 13 | | | |
| 18. | W. C. | 6 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 4 | 7 | 11 | | | |
| 19. | W. C. | 7 | | | | | 3 | | | | 1 | 2 | 1 | 1 | | 1 | | 1 | | | | 3 | 5 | 15 | | | |
| 20. | W. C. | 5 | | | | | 2 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 1 | 9 | 13 | | | |
| 21. | W. C. | 9 | | | | 1 | 2 | | | | 1 | 1 | 1 | 1 | | 1 | | 2 | | | | 1 | 6 | 16 | | | |
| 22. | W. C. | 3 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 1 | 1 | 13 | | | |
| 23. | W. C. | 4 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 2 | 7 | 13 | | | |
| 24. | W. C. | 8 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 1 | 4 | 19 | | | |
| 25. | W. C. | 9 | | | | | 3 | | | | 2 | 2 | 1 | 1 | | 2 | | 1 | | | | 1 | 6 | 10 | | | |
| 26. | W. C. | 6 | | | | | 2 | | | | 2 | 1 | 1 | 1 | | 3 | | 1 | | | | 1 | 4 | 9 | | | |
| 27. | W. C. | 4 | | | | | 3 | | | | 1 | 3 | 1 | 1 | | 1 | | 1 | | | | 1 | 3 | 8 | | | |
| 28. | W. C. | 6 | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 1 | 2 | 12 | | | |
| 29. | W. C. | 5 | | | | | 2 | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 1 | 1 | 10 | | | |
| 30. | W. C. | 3 | | | | | 2 | | | | 1 | 1 | 1 | 1 | | 1 | | 2 | | | | 1 | 2 | 18 | | | |
| 31. | W. C. | 5 | | | | | 3 | | | | 1 | 1 | 1 | 1 | | 2 | | 1 | | | | 2 | 5 | 14 | | | |
| Total. | W. C. | 206 | 3 | 1 | 48 | 65 | 7 | 3 | 3 | 2 | 27 | 9 | 7 | 3 | 3 | 26 | 2 | 1 | 3 | 27 | 13 | 28 | 60 | 210 | | | |
| Means. | W. C. | 184 | 4 | | 23 | 98 | 15 | 9 | 2 | 3 | 31 | 7 | | 4 | 4 | 34 | 4 | 2 | 3 | 21 | 7 | 10 | 59 | 188 | 398 | | |

TABLE X—Continued.

AUGUST, 1885.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|-----------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 29.901 | 75.7 | 78.1 | 90.2 | 70.0 | 20.2 | 72.2 | 69.2 | E. | S | W. | 103 | .12 | 1 |
| 29.851 | 78.3 | 78.6 | 89.8 | 68.4 | 21.4 | 72.8 | 70.1 | NE. | S | NE. | 118 | 1.36 | 2 |
| 29.690 | 81.0 | 75.5 | 84.1 | 67.0 | 17.1 | 71.5 | 69.2 | SE. | S | NW. | 236 | .85 | 3 |
| 29.830 | 64.3 | 75.6 | 83.9 | 65.2 | 18.7 | 67.4 | 62.0 | W. | S | SW. | 136 | ..... | 4 |
| 29.964 | 59.3 | 76.2 | 84.8 | 67.9 | 16.9 | 66.5 | 59.9 | NW. | NW. | N. | 119 | ..... | 5 |
| 30.103 | 66.7 | 70.1 | 77.9 | 61.8 | 16.1 | 62.9 | 57.8 | N. | NW. | 0 | 101 | ..... | 6 |
| 29.953 | 90.3 | 68.4 | 71.3 | 64.0 | 7.3 | 66.7 | 65.3 | SE. | S. | E. | 106 | 1.85 | 7 |
| 30.053 | 83.0 | 69.6 | 75.1 | 64.4 | 10.7 | 66.3 | 64.1 | NE. | NE. | E. | 160 | .09 | 8 |
| 30.090 | 73.7 | 71.0 | 78.6 | 63.2 | 15.4 | 65.3 | 61.6 | NE. | SE. | 0 | 91 | ..... | 9 |
| 30.063 | 75.3 | 75.3 | 84.4 | 65.0 | 19.4 | 69.7 | 66.4 | E. | S. | S. | 81 | ..... | 10 |
| 30.061 | 78.7 | 77.9 | 86.3 | 70.0 | 16.3 | 72.7 | 69.9 | S. | S. | S. | 80 | ..... | 11 |
| 29.984 | 82.3 | 79.1 | 87.3 | 72.7 | 14.6 | 74.7 | 72.6 | E. | S. | S. | 93 | ..... | 12 |
| 29.786 | 80.0 | 79.6 | 89.6 | 73.5 | 16.1 | 74.8 | 72.4 | S. | S. | 0 | 132 | .12 | 13 |
| 29.829 | 65.7 | 75.1 | 84.4 | 69.0 | 15.4 | 67.0 | 61.9 | NW. | N. | N. | 132 | ..... | 14 |
| 30.006 | 70.7 | 66.9 | 75.3 | 62.0 | 13.3 | 60.9 | 56.6 | NW. | N. | N. | 140 | ..... | 15 |
| 30.203 | 70.0 | 66.2 | 78.0 | 57.3 | 20.7 | 60.2 | 55.5 | N. | NE. | NE. | 69 | ..... | 16 |
| 30.177 | 71.7 | 70.5 | 80.0 | 57.7 | 22.3 | 64.3 | 60.4 | 0 | S. | S. | 80 | ..... | 17 |
| 30.016 | 72.3 | 76.0 | 87.2 | 65.2 | 22.0 | 69.2 | 65.1 | 0 | SW. | SW. | 59 | ..... | 18 |
| 29.860 | 70.0 | 76.2 | 87.7 | 67.0 | 20.7 | 69.1 | 65.0 | SW. | SW. | NW. | 102 | .03 | 19 |
| 30.024 | 63.7 | 72.8 | 81.5 | 65.4 | 16.1 | 64.9 | 58.8 | N. | N. | 0 | 82 | ..... | 20 |
| 30.060 | 74.7 | 79.3 | 88.3 | 69.0 | 19.3 | 73.2 | 70.2 | SE. | S. | S. | 109 | ..... | 21 |
| 30.029 | 72.3 | 80.2 | 90.0 | 73.5 | 16.5 | 73.5 | 69.8 | S. | 0 | 0 | 82 | .01 | 22 |
| 29.958 | 92.3 | 75.3 | 89.1 | 69.9 | 19.2 | 73.5 | 72.8 | 0 | N. | S. | 56 | .78 | 23 |
| 29.808 | 69.0 | 82.5 | 94.1 | 73.2 | 20.9 | 74.4 | 70.3 | S. | SW. | SW. | 117 | ..... | 24 |
| 29.736 | 71.0 | 78.9 | 94.2 | 63.5 | 30.7 | 71.4 | 67.6 | S. | SW. | NE. | 167 | 1.24 | 25 |
| 30.013 | 57.3 | 61.8 | 70.1 | 56.8 | 13.3 | 53.7 | 45.3 | N. | NE. | NW. | 228 | ..... | 26 |
| 30.208 | 65.0 | 59.7 | 67.7 | 51.0 | 16.7 | 53.4 | 47.0 | W. | NW. | NW. | 103 | ..... | 27 |
| 30.133 | 72.3 | 64.8 | 76.3 | 50.8 | 25.5 | 59.2 | 54.9 | NW. | S. | S. | 85 | ..... | 28 |
| 30.072 | 82.3 | 69.3 | 79.1 | 60.0 | 19.1 | 65.6 | 63.4 | 0 | S. | S. | 103 | .01 | 29 |
| 29.884 | 86.3 | 72.3 | 76.3 | 66.4 | 9.9 | 69.4 | 67.8 | S. | S. | S. | 71 | .03 | 30 |
| 29.883 | 69.0 | 73.1 | 81.4 | 67.0 | 14.4 | 66.0 | 61.3 | NW. | NW. | 0 | 125 | ..... | 31 |
| 929.228 | 2,284.2 | 2,275.9 | 2,564.0 | 2,017.8 | 546.2 | 2,092.4 | 1,974.2 | ..... | ..... | ..... | 3,466 | 6.49 | |
| 29.975 | 73.7 | 73.4 | 82.7 | 65.1 | 17.6 | 67.5 | 63.7 | S. | S. | S. | 111.8 | .209 | |

* Dash (—) in rainfall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.
SEPTEMBER, 1885.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|--------------------------------------|---------------------------|-----------|-----------------|--|--|---------------------------------------|--|----------------|-------------|--------|---------------------|----------------|----------------|-----------------------|------------------|--------------|------------|-------------|----------------------|-------------------|---------------------------------|-------------|-------------------------------|---------------------|-------------------------|---------------|-----------------------|------------------|--------------|------------|-------------|----------------------|-------------------|---------------------------------|-------------|-------------------------------|---------------------|-------------------------|---------------|
| | | Total deaths less those by violence. | Deaths by violence. | | Deaths by ages. | | | | | | | | | | Typhoid fever. | Typho-malarial fever. | Malarial fevers. | Consumption. | Pneumonia. | Erysipelas. | Congestion of lungs. | Nervous diseases. | Diseases of circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths, by color. | Total deaths. | | | | | | | | | | | | | |
| | | | Accidents and negligence. | Homicide. | Suicide. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One day old and under, less those by violence. | Scarlet fever. | Diphtheria. | Croup. | Diarrheal diseases. | Typhoid fever. | | | | | | | | | | | | | | | Typho-malarial fever. | Malarial fevers. | Consumption. | Pneumonia. | Erysipelas. | Congestion of lungs. | Nervous diseases. | Diseases of circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths, by color. | Total deaths. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1..... | W. | 8 | 2 | | | 4 | 1 | | | | | | | | 1 | 3 | | | | | | | | | 10 | 13 | | | | | | | | | | | | | | | |
| 2..... | C. | 12 | 1 | | | 1 | | | | | | | | | 1 | 1 | | | | | | | | | 3 | 15 | | | | | | | | | | | | | | | |
| 3..... | W. | 6 | 1 | | | 1 | 1 | | | | | 3 | 1 | | | | | | | | | | | | 8 | 11 | | | | | | | | | | | | | | | |
| 4..... | C. | 4 | | | | 2 | 2 | | | | | 1 | 1 | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | |
| 5..... | W. | 3 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | 3 | 8 | | | | | | | | | | | | | | | |
| 6..... | C. | 7 | | | | 2 | 2 | | | | | 1 | 1 | | | | | | | | | | | | 5 | 12 | | | | | | | | | | | | | | | |
| 7..... | W. | 3 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | 3 | 9 | | | | | | | | | | | | | | | |
| 8..... | C. | 11 | 3 | | | 2 | 2 | | | | | 6 | 6 | | | | | | | | | | | | 11 | 14 | | | | | | | | | | | | | | | |
| 9..... | W. | 10 | | 1 | | 4 | 1 | | | | | 1 | 1 | | | | | | | | | | | | 3 | 14 | | | | | | | | | | | | | | | |
| 10..... | C. | 3 | | | | 3 | 3 | | | | | | | | | | | | | | | | | | 5 | 9 | | | | | | | | | | | | | | | |
| 11..... | W. | 5 | | | | 2 | 2 | | | | | 2 | 2 | | | | | | | | | | | | 3 | 14 | | | | | | | | | | | | | | | |
| 12..... | C. | 8 | 1 | | | 2 | 2 | | | | | 1 | 1 | | | | | | | | | | | | 9 | 14 | | | | | | | | | | | | | | | |
| 13..... | W. | 6 | | | | 2 | 2 | | | | | 4 | 4 | | | | | | | | | | | | 6 | 12 | | | | | | | | | | | | | | | |
| 14..... | C. | 6 | | | | 2 | 2 | | | | | 2 | 2 | | | | | | | | | | | | 6 | 15 | | | | | | | | | | | | | | | |
| 15..... | W. | 11 | 2 | | | 1 | 1 | | | | | 6 | 6 | | | | | | | | | | | | 11 | 16 | | | | | | | | | | | | | | | |
| 16..... | C. | 7 | 1 | | | 3 | 1 | | | | | 1 | 1 | | | | | | | | | | | | 8 | 16 | | | | | | | | | | | | | | | |
| 17..... | W. | 5 | | | | 3 | 3 | | | | | | | | | | | | | | | | | | 5 | 9 | | | | | | | | | | | | | | | |
| 18..... | C. | 4 | | | | 1 | 1 | | | | | 3 | 3 | | | | | | | | | | | | 4 | 13 | | | | | | | | | | | | | | | |
| 19..... | W. | 4 | | | | 3 | 3 | | | | | 1 | 1 | | | | | | | | | | | | 5 | 9 | | | | | | | | | | | | | | | |
| 20..... | C. | 7 | 1 | | | 3 | 3 | | | | | 1 | 1 | | | | | | | | | | | | 8 | 13 | | | | | | | | | | | | | | | |
| 21..... | W. | 8 | | | | 2 | 5 | | | | | 1 | 1 | | | | | | | | | | | | 3 | 11 | | | | | | | | | | | | | | | |
| 22..... | C. | 3 | | | | 4 | 1 | | | | | 2 | 2 | | | | | | | | | | | | 4 | 9 | | | | | | | | | | | | | | | |
| 23..... | W. | 7 | 1 | | | 1 | 1 | | | | | 1 | 1 | | | | | | | | | | | | 1 | 13 | | | | | | | | | | | | | | | |
| 24..... | C. | 3 | | | | 5 | 2 | | | | | 2 | 2 | | | | | | | | | | | | 3 | 19 | | | | | | | | | | | | | | | |
| 25..... | W. | 4 | | | | 2 | 2 | | | | | 3 | 3 | | | | | | | | | | | | 4 | 12 | | | | | | | | | | | | | | | |
| 26..... | C. | 7 | | | | 1 | 1 | | | | | 1 | 1 | | | | | | | | | | | | 5 | 9 | | | | | | | | | | | | | | | |
| 27..... | W. | 5 | | | | 1 | 1 | | | | | 2 | 2 | | | | | | | | | | | | 4 | 8 | | | | | | | | | | | | | | | |
| 28..... | C. | 4 | | | | 1 | 1 | | | | | 1 | 1 | | | | | | | | | | | | 5 | 10 | | | | | | | | | | | | | | | |
| 29..... | W. | 7 | 1 | | | 2 | 3 | | | | | 1 | 1 | | | | | | | | | | | | 7 | 15 | | | | | | | | | | | | | | | |
| 30..... | C. | 8 | | | | 3 | 1 | | | | | 1 | 1 | | | | | | | | | | | | 8 | 21 | | | | | | | | | | | | | | | |
| 1..... | W. | 13 | | | | 9 | 1 | | | | | 1 | 1 | | | | | | | | | | | | 13 | 21 | | | | | | | | | | | | | | | |
| 2..... | C. | 3 | | | | 2 | 5 | | | | | 1 | 1 | | | | | | | | | | | | 3 | 20 | | | | | | | | | | | | | | | |
| 3..... | W. | 7 | | | | 2 | 3 | | | | | 1 | 1 | | | | | | | | | | | | 7 | 12 | | | | | | | | | | | | | | | |
| 4..... | C. | 12 | | | | 3 | 3 | | | | | 1 | 1 | | | | | | | | | | | | 12 | 20 | | | | | | | | | | | | | | | |
| 5..... | W. | 9 | | | | 4 | 1 | | | | | 2 | 2 | | | | | | | | | | | | 9 | 12 | | | | | | | | | | | | | | | |
| 6..... | C. | 1 | | | | 2 | 4 | | | | | 1 | 1 | | | | | | | | | | | | 1 | 10 | | | | | | | | | | | | | | | |
| 7..... | W. | 156 | 8 | 2 | 1 | 39 | 64 | 7 | 2 | 9 | 2 | 19 | 8 | 1 | 8 | 37 | 7 | 1 | 3 | 24 | 7 | 1 | 13 | 47 | 194 | 363 | | | | | | | | | | | | | | | |
| 8..... | C. | 11 | 2 | .. | 28 | 64 | 5 | 4 | 5 | 3 | 3 | 14 | 6 | 1 | 4 | 34 | 1 | 4 | .. | 20 | 10 | 1 | 12 | 41 | 169 | | | | | | | | | | | | | | | | |

TABLE X—Continued.

SEPTEMBER, 1885.

Meteorological conditions.

| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
|-----------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|-----------------|---------------|
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 29.956 | 64.3 | 68.4 | 79.4 | 60.0 | 19.4 | 60.7 | 54.4 | 0 | NW. | NW. | 94 | * (—) | 1 |
| 30.204 | 60.0 | 61.2 | 70.5 | 56.0 | 14.5 | 53.7 | 46.0 | NW. | NE. | 0 | 110 | ..... | 2 |
| 30.142 | 70.7 | 66.3 | 77.0 | 51.0 | 26.0 | 60.5 | 56.0 | 0 | S. | S. | 104 | .01 | 3 |
| 30.007 | 77.0 | 72.5 | 84.6 | 61.0 | 23.6 | 66.9 | 63.4 | 0 | S. | S. | 120 | 1.12 | 4 |
| 29.986 | 77.0 | 67.6 | 78.4 | 58.5 | 19.9 | 63.2 | 59.8 | 0 | E. | N. | 105 | .49 | 5 |
| 30.186 | 72.3 | 59.4 | 69.0 | 52.9 | 16.1 | 54.3 | 49.6 | N. | SE. | 0 | 99 | ..... | 6 |
| 30.188 | 74.0 | 63.3 | 69.6 | 51.3 | 18.3 | 58.4 | 54.5 | 0 | S. | SE. | 40 | ..... | 7 |
| 30.031 | 76.0 | 69.3 | 74.3 | 62.5 | 11.8 | 64.3 | 61.1 | SE. | S. | S. | 116 | * (—) | 8 |
| 29.766 | 59.7 | 78.2 | 90.7 | 70.2 | 20.5 | 67.5 | 60.1 | SW. | W. | N. | 231 | ..... | 9 |
| 30.018 | 71.7 | 65.6 | 71.4 | 61.2 | 10.2 | 60.1 | 55.6 | NW. | NW. | NE. | 120 | ..... | 10 |
| 30.214 | 83.0 | 62.1 | 65.4 | 58.0 | 7.4 | 59.1 | 56.7 | NE. | NE. | NE. | 119 | * (—) | 11 |
| 30.214 | 74.3 | 65.8 | 72.2 | 60.5 | 11.7 | 60.7 | 57.1 | E. | S. | S. | 75 | ..... | 12 |
| 30.044 | 74.0 | 72.0 | 82.6 | 59.9 | 22.7 | 66.1 | 62.6 | S. | S. | S. | 114 | ..... | 13 |
| 29.928 | 78.0 | 74.6 | 86.7 | 69.5 | 17.2 | 69.8 | 66.9 | SW. | SW. | 0 | 88 | .01 | 14 |
| 29.921 | 65.3 | 73.7 | 87.2 | 62.0 | 25.2 | 64.9 | 58.7 | 0 | S. | N. | 57 | ..... | 15 |
| 30.087 | 56.0 | 66.5 | 77.4 | 60.4 | 17.0 | 57.3 | 48.8 | N. | NW. | N. | 140 | ..... | 16 |
| 30.328 | 67.0 | 62.7 | 74.3 | 51.0 | 23.3 | 56.0 | 50.2 | 0 | S. | 0 | 47 | ..... | 17 |
| 30.214 | 70.0 | 67.8 | 80.9 | 55.9 | 25.0 | 61.4 | 56.7 | S. | S. | S. | 59 | ..... | 18 |
| 30.119 | 73.7 | 71.0 | 83.6 | 57.7 | 25.9 | 65.0 | 61.0 | 0 | W. | 0 | 47 | ..... | 19 |
| 30.187 | 61.7 | 67.6 | 76.4 | 62.8 | 13.6 | 59.6 | 52.9 | NE. | NE. | E. | 111 | ..... | 20 |
| 30.118 | 84.0 | 62.4 | 65.7 | 59.0 | 6.7 | 59.6 | 57.4 | NE. | E. | NE. | 85 | ..... | 21 |
| 29.693 | 87.0 | 60.6 | 63.3 | 58.5 | 4.8 | 58.5 | 56.6 | N. | N. | NW. | 82 | .52 | 22 |
| 29.879 | 50.0 | 54.3 | 61.5 | 49.6 | 11.9 | 46.2 | 35.0 | NW. | NW. | NW. | 290 | * (—) | 23 |
| 30.059 | 60.3 | 58.6 | 71.4 | 44.0 | 27.4 | 51.0 | 42.6 | W. | SW. | SW. | 124 | ..... | 24 |
| 30.234 | 68.0 | 62.0 | 77.0 | 48.3 | 28.7 | 55.6 | 49.8 | 0 | SW. | SE. | 52 | ..... | 25 |
| 30.319 | 76.0 | 63.8 | 76.6 | 52.3 | 24.3 | 58.8 | 55.0 | SE. | S. | 0 | 54 | ..... | 26 |
| 30.182 | 79.0 | 67.0 | 80.6 | 52.7 | 27.9 | 62.3 | 59.3 | W. | S. | 0 | 45 | ..... | 27 |
| 30.163 | 74.3 | 69.2 | 81.4 | 58.3 | 23.1 | 63.6 | 59.7 | 0 | SE. | E. | 64 | ..... | 28 |
| 30.139 | 75.7 | 64.9 | 76.3 | 57.3 | 19.0 | 59.8 | 55.7 | NE. | NE. | SE. | 82 | ..... | 29 |
| 30.043 | 76.7 | 65.5 | 78.4 | 54.0 | 24.4 | 60.4 | 56.9 | 0 | S. | 0 | 50 | ..... | 30 |
| 902.769 | 2,136.7 | 1,983.8 | 2,283.8 | 1,716.3 | 567.5 | 1,805.3 | 1,600.1 | ..... | ..... | ..... | 2,924 | 2.15 | |
| 30.092 | 71.2 | 66.1 | 76.1 | 57.2 | 18.9 | 60.2 | 55.3 | NE. | S. | S. | 97.5 | 0.72 | |

* Dash (—) in rainfall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.
SEPTEMBER, 1885.

[illegible]

TABLE X—Continued.

SEPTEMBER, 1885.

Meteorological conditions.

| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
|-----------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|-----------------|---------------|
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 29.956 | 64.3 | 68.4 | 79.4 | 60.0 | 19.4 | 60.7 | 54.4 | 0 | NW. | NW. | 94 | *(-) | 1 |
| 30.204 | 60.0 | 61.2 | 70.5 | 56.0 | 14.5 | 53.7 | 46.0 | NW. | NE. | 0 | 110 | ..... | 2 |
| 30.142 | 70.7 | 66.3 | 77.0 | 51.0 | 26.0 | 60.5 | 56.0 | 0 | S. | S. | 104 | .01 | 3 |
| 30.007 | 77.0 | 72.5 | 84.6 | 61.0 | 23.6 | 66.9 | 63.4 | 0 | S. | S. | 120 | 1.12 | 4 |
| 29.986 | 77.0 | 67.6 | 78.4 | 58.5 | 19.9 | 63.2 | 59.8 | 0 | E. | N. | 105 | .49 | 5 |
| 30.186 | 72.3 | 59.2 | 69.0 | 52.9 | 16.1 | 54.3 | 49.6 | N. | SE. | 0 | 99 | ..... | 6 |
| 30.188 | 74.0 | 63.3 | 69.6 | 51.3 | 18.3 | 58.4 | 54.5 | 0 | S. | SE. | 40 | ..... | 7 |
| 30.031 | 76.0 | 69.3 | 74.3 | 62.5 | 11.8 | 64.3 | 61.1 | SE. | S. | S. | 116 | *(-) | 8 |
| 29.766 | 59.7 | 78.2 | 90.7 | 70.2 | 20.5 | 67.5 | 60.1 | SW. | W. | N. | 231 | ..... | 9 |
| 30.018 | 71.7 | 65.6 | 71.4 | 61.2 | 10.2 | 60.1 | 55.6 | NW. | NW. | NE. | 120 | ..... | 10 |
| 30.214 | 83.0 | 62.1 | 65.4 | 58.0 | 7.4 | 59.1 | 56.7 | NE. | NE. | NE. | 119 | *(-) | 11 |
| 30.214 | 74.3 | 65.8 | 72.2 | 60.5 | 11.7 | 60.7 | 57.1 | E. | S. | S. | 75 | ..... | 12 |
| 30.044 | 74.0 | 72.0 | 82.6 | 59.9 | 22.7 | 66.1 | 62.6 | S. | S. | S. | 114 | ..... | 13 |
| 29.928 | 78.0 | 74.6 | 86.7 | 69.5 | 17.2 | 69.8 | 66.9 | SW. | SW. | 0 | 88 | .01 | 14 |
| 29.921 | 65.3 | 73.7 | 87.2 | 62.0 | 25.2 | 64.9 | 58.7 | 0 | S. | N. | 57 | ..... | 15 |
| 30.087 | 56.0 | 66.5 | 77.4 | 60.4 | 17.0 | 57.3 | 48.8 | N. | NW. | N. | 140 | ..... | 16 |
| 30.328 | 67.0 | 62.7 | 74.3 | 51.0 | 23.3 | 56.0 | 50.2 | 0 | S. | 0 | 47 | ..... | 17 |
| 30.214 | 70.0 | 67.8 | 80.9 | 55.9 | 25.0 | 61.4 | 56.7 | S. | S. | S. | 59 | ..... | 18 |
| 30.119 | 73.7 | 71.0 | 83.6 | 57.7 | 25.9 | 65.0 | 61.0 | 0 | W. | 0 | 47 | ..... | 19 |
| 30.187 | 61.7 | 67.6 | 76.4 | 62.8 | 13.6 | 59.6 | 52.9 | NE. | NE. | E. | 111 | ..... | 20 |
| 30.118 | 84.0 | 62.4 | 65.7 | 59.0 | 6.7 | 59.6 | 57.4 | NE. | E. | NE. | 85 | ..... | 21 |
| 29.693 | 87.0 | 60.6 | 63.3 | 58.5 | 4.8 | 58.5 | 56.6 | N. | N. | NW. | 82 | .52 | 22 |
| 29.879 | 50.0 | 54.3 | 61.5 | 49.6 | 11.9 | 46.2 | 35.0 | NW. | NW. | NW. | 290 | *(-) | 23 |
| 30.059 | 60.3 | 58.6 | 71.4 | 44.0 | 27.4 | 51.0 | 42.6 | W. | SW. | SW. | 124 | ..... | 24 |
| 30.234 | 68.0 | 62.0 | 77.0 | 48.3 | 28.7 | 55.6 | 49.8 | 0 | SW. | SE. | 52 | ..... | 25 |
| 30.310 | 76.0 | 63.8 | 76.6 | 52.3 | 24.3 | 58.8 | 55.0 | SE. | S. | 0 | 54 | ..... | 26 |
| 30.182 | 79.0 | 67.0 | 80.6 | 52.7 | 27.9 | 62.3 | 59.3 | W. | S. | 0 | 45 | ..... | 27 |
| 30.163 | 74.3 | 69.2 | 81.4 | 58.3 | 23.1 | 63.6 | 59.7 | 0 | SE. | E. | 64 | ..... | 28 |
| 30.139 | 75.7 | 64.9 | 76.3 | 57.3 | 19.0 | 59.8 | 55.7 | NE. | NE. | SE. | 82 | ..... | 29 |
| 30.043 | 76.7 | 65.5 | 78.4 | 54.0 | 24.4 | 60.4 | 56.9 | 0 | S. | 0 | 50 | ..... | 30 |
| 902.769 | 2, 136.7 | 1,983.8 | 2,283.8 | 1,716.3 | 567.5 | 1,805.3 | 1,600.1 | ..... | ..... | ..... | 2,924 | 2.15 | |
| 30.092 | 71.2 | 66.1 | 76.1 | 57.2 | 18.9 | 60.2 | 55.3 | NE. | S. | S. | 97.5 | 0.72 | |

* Dash (-) in rainfall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.

OCTOBER, 1885.

| Meteorological conditions. | | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|--------------|-------------------------|-----------------|--|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | | |
| 30.019 | 73.3 | 64.1 | 75.5 | 56.0 | 19.5 | 58.6 | 54.1 | SE. | SE. | E. | 85 | ..... |  | 1 |
| 29.878 | 94.0 | 62.7 | 66.1 | 58.3 | 7.8 | 61.8 | 60.9 | NE. | E. | E. | 152 | .18 | | 2 |
| 29.654 | 83.0 | 68.9 | 75.2 | 63.9 | 11.3 | 65.3 | 63.1 | NE. | SE. | S. | 124 | .69 | | 3 |
| 29.824 | 72.3 | 57.9 | 67.1 | 49.0 | 18.1 | 53.5 | 48.4 | SW. | W. | NW. | 177 | .24 | | 4 |
| 30.122 | 62.0 | 54.0 | 62.0 | 44.0 | 18.0 | 47.8 | 40.5 | NW. | S. | S. | 109 | ..... |  | 5 |
| 30.122 | 89.7 | 48.4 | 54.3 | 44.9 | 9.4 | 47.0 | 45.5 | N. | N. | NW. | 69 | .57 | | 6 |
| 30.221 | 61.0 | 49.2 | 57.0 | 42.0 | 15.0 | 43.4 | 35.0 | NW. | NW. | SE. | 90 | ..... |  | 7 |
| 30.191 | 86.0 | 50.0 | 53.7 | 46.6 | 7.1 | 47.9 | 45.8 | NE. | NE. | NE. | 112 | .10 | | 8 |
| 30.312 | 80.3 | 49.7 | 57.2 | 44.0 | 13.2 | 46.6 | 43.0 | N. | N. | 0 | 93 | ..... |  | 9 |
| 30.280 | 81.7 | 51.3 | 64.9 | 39.8 | 25.1 | 47.8 | 44.5 | 0 | S. | 0 | 48 | ..... |  | 10 |
| 30.184 | 78.7 | 54.5 | 68.7 | 41.7 | 27.0 | 50.6 | 47.1 | S. | SW. | 0 | 38 | ..... |  | 11 |
| 29.939 | 94.0 | 57.4 | 63.9 | 50.8 | 13.1 | 56.4 | 55.5 | NE. | E. | E. | 277 | .84 | | 12 |
| 29.616 | 80.7 | 67.5 | 72.8 | 57.1 | 15.7 | 63.5 | 60.6 | SE. | SW. | S. | 222 | .96 | | 13 |
| 29.746 | 67.3 | 55.9 | 65.2 | 47.2 | 18.0 | 50.4 | 44.7 | SW. | SW. | NW. | 137 | * (—) | | 14 |
| 29.889 | 73.7 | 54.2 | 63.1 | 48.6 | 14.5 | 49.7 | 44.8 | W. | NW. | 0 | 114 | ..... |  | 15 |
| 29.901 | 77.7 | 55.5 | 66.4 | 44.3 | 22.1 | 51.5 | 47.9 | SW. | S. | 0 | 55 | ..... |  | 16 |
| 30.023 | 80.0 | 58.0 | 72.4 | 48.1 | 24.3 | 54.1 | 50.8 | 0 | SW. | SE. | 49 | ..... |  | 17 |
| 30.093 | 83.0 | 60.2 | 71.7 | 50.0 | 21.7 | 56.8 | 54.1 | 0 | SW. | S. | 44 | ..... |  | 18 |
| 30.070 | 81.3 | 63.6 | 72.4 | 54.1 | 18.3 | 59.9 | 57.2 | 0 | S. | S. | 93 | ..... |  | 19 |
| 30.029 | 81.7 | 67.9 | 75.4 | 63.5 | 11.9 | 64.1 | 61.7 | S. | S. | S. | 155 | ..... |  | 20 |
| 30.015 | 75.3 | 49.2 | 66.1 | 43.3 | 22.8 | 45.7 | 41.0 | NW. | NW. | NW. | 223 | 1.92 | | 21 |
| 30.150 | 70.3 | 44.6 | 55.6 | 38.0 | 17.6 | 40.3 | 34.0 | NW. | NW. | NW. | 78 | ..... |  | 22 |
| 30.113 | 75.0 | 46.9 | 56.4 | 35.3 | 21.1 | 43.1 | 38.1 | 0 | S. | N. | 66 | * (—) | | 23 |
| 30.238 | 78.3 | 47.7 | 58.5 | 41.0 | 17.5 | 44.2 | 40.3 | 0 | N. | N. | 77 | ..... |  | 24 |
| 30.252 | 78.0 | 47.2 | 61.1 | 36.9 | 24.2 | 43.5 | 39.2 | 0 | S. | SE. | 39 | ..... |  | 25 |
| 30.157 | 75.0 | 50.9 | 63.4 | 38.3 | 25.1 | 47.6 | 44.2 | 0 | S. | S. | 59 | ..... |  | 26 |
| 30.075 | 78.7 | 53.1 | 66.6 | 41.4 | 25.2 | 49.1 | 45.3 | 0 | S. | 0 | 42 | ..... |  | 27 |
| 29.974 | 84.3 | 58.6 | 69.8 | 44.8 | 25.0 | 55.6 | 53.3 | SE. | SE. | NE. | 54 | ..... |  | 28 |
| 29.385 | 95.7 | 59.1 | 63.0 | 57.2 | 5.8 | 58.5 | 57.9 | E. | NE. | NW. | 226 | 2.69 | | 29 |
| 29.701 | 69.0 | 47.4 | 57.2 | 42.9 | 14.3 | 43.3 | 37.6 | NW. | N. | N. | 377 | .50 | | 30 |
| 30.124 | 74.3 | 40.6 | 46.0 | 36.0 | 10.0 | 37.5 | 32.5 | NW. | N. | NW. | 223 | ..... |  | 31 |
| 30.297 | 2,435.3 | 1,696.2 | 1,988.7 | 1,449.0 | 539.7 | 1,585.1 | 1,468.6 | ..... | ..... | ..... | 3,707 | 8.69 | | |
| 30.010 | 78.6 | 54.7 | 64.2 | 46.7 | 17.4 | 51.1 | 47.4 | NW. | S. | { S. & NW. } | 119.6 | 2.80 | | |

* Dash (—) in rainfall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.
NOVEMBER 1965.

[illegible]

TABLE X—Continued.

NOVEMBER, 1885.

Meteorological conditions.

| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
|-----------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|-----------------|---------------|
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 30.064 | 85.7 | 43.9 | 50.4 | 32.4 | 18.0 | 41.3 | 39.5 | N. | S. | NE. | 92 | .89 | 1 |
| 29.835 | 80.3 | 43.4 | 52.6 | 41.0 | 11.6 | 43.4 | 37.5 | NW. | SW. | NW. | 187 | .17 | 2 |
| 30.046 | 64.0 | 42.5 | 47.9 | 37.0 | 10.9 | 38.7 | 30.7 | NW. | NW. | S. | 230 | ..... | 3 |
| 30.121 | 68.3 | 45.6 | 53.2 | 36.1 | 17.1 | 40.8 | 35.3 | W. | S. | S. | 95 | ..... | 4 |
| 30.025 | 72.0 | 58.2 | 66.8 | 47.0 | 19.8 | 52.4 | 48.8 | S. | S. | S. | 208 | * (—) | 5 |
| 30.078 | 87.3 | 63.0 | 69.1 | 56.5 | 12.6 | 60.5 | 59.1 | SW. | S. | S. | 100 | * (—) | 6 |
| 30.015 | 96.0 | 64.6 | 71.0 | 61.4 | 9.6 | 64.8 | 63.4 | S. | S. | S. | 114 | .21 | 7 |
| 29.890 | 91.7 | 57.5 | 64.4 | 50.0 | 14.4 | 60.6 | 54.8 | S. | NW. | NW. | 95 | 1.18 | 8 |
| 30.012 | 67.3 | 47.2 | 52.2 | 44.5 | 7.7 | 44.0 | 36.6 | NW. | NW. | NW. | 247 | .03 | 9 |
| 30.055 | 60.3 | 46.9 | 52.6 | 42.5 | 10.1 | 42.2 | 33.4 | NW. | NW. | NW. | 254 | ..... | 10 |
| 30.028 | 65.0 | 51.0 | 60.5 | 39.0 | 21.5 | 44.7 | 38.0 | W. | S. | S. | 136 | ..... | 11 |
| 29.894 | 70.3 | 59.1 | 69.8 | 50.5 | 19.3 | 53.0 | 48.6 | S. | S. | S. | 106 | ..... | 12 |
| 29.826 | 87.7 | 51.7 | 61.6 | 41.6 | 20.0 | 51.0 | 48.1 | S. | SW. | N. | 144 | .14 | 13 |
| 29.825 | 66.3 | 41.6 | 50.6 | 32.8 | 17.8 | 40.0 | 30.5 | 0 | SW. | NW. | 64 | ..... | 14 |
| 29.945 | 57.3 | 38.8 | 43.3 | 36.8 | 6.5 | 33.8 | 24.9 | NW. | NW. | NW. | 255 | ..... | 15 |
| 30.194 | 66.0 | 39.2 | 46.5 | 34.0 | 12.5 | 36.0 | 28.2 | NW. | NW. | 0 | 135 | ..... | 16 |
| 30.255 | 74.0 | 41.2 | 52.2 | 29.7 | 22.5 | 38.4 | 32.6 | 0 | S. | SW. | 50 | ..... | 17 |
| 29.881 | 78.7 | 51.8 | 62.3 | 37.4 | 24.9 | 46.1 | 45.0 | 0 | SW. | SW. | 119 | * (—) | 18 |
| 29.724 | 81.3 | 49.4 | 57.1 | 41.5 | 15.6 | 49.4 | 43.8 | 0 | NW. | N. | 127 | .01 | 19 |
| 29.867 | 73.0 | 36.9 | 46.5 | 31.9 | 14.6 | 35.0 | 28.1 | N. | N. | SE. | 117 | ..... | 20 |
| 29.812 | 75.7 | 40.0 | 46.7 | 30.8 | 15.9 | 36.0 | 32.7 | SW. | NW. | NW. | 58 | * (—) | 21 |
| 29.814 | 89.7 | 40.8 | 44.5 | 32.6 | 11.9 | 37.6 | 37.8 | 0 | NE. | NE. | 99 | .27 | 22 |
| 29.674 | 93.0 | 38.7 | 43.6 | 36.2 | 7.4 | 39.3 | 36.8 | N. | NW. | N. | 221 | .34 | 23 |
| 29.758 | 87.3 | 36.7 | 39.5 | 34.7 | 4.8 | 35.1 | 33.2 | NW. | NW. | NW. | 205 | .06 | 24 |
| 29.746 | 66.3 | 37.0 | 42.7 | 33.4 | 9.3 | 34.2 | 26.6 | NW. | NW. | NW. | 218 | * (—) | 25 |
| 30.065 | 63.7 | 39.1 | 42.6 | 33.8 | 8.8 | 34.2 | 27.7 | NW. | NW. | NW. | 277 | * (—) | 26 |
| 30.356 | 77.7 | 38.0 | 42.1 | 35.5 | 6.6 | 35.6 | 31.4 | NW. | NW. | N. | 122 | ..... | 27 |
| 30.291 | 79.7 | 39.1 | 48.2 | 32.0 | 16.2 | 37.8 | 32.9 | 0 | S. | S. | 50 | ..... | 28 |
| 30.126 | 90.7 | 36.2 | 37.8 | 32.9 | 4.9 | 35.2 | 33.8 | NE. | NE. | N. | 136 | .03 | 29 |
| 30.081 | 68.7 | 39.8 | 44.8 | 34.8 | 10.0 | 36.4 | 30.0 | NW. | N. | N. | 183 | ..... | 30 |
| 899.306 | 2,285.0 | 1,358.9 | 1,563.1 | 1,160.3 | 402.8 | 1,277.5 | 1,129.8 | ..... | ..... | ..... | 4,444 | 3.33 | |
| 29.977 | 76.2 | 45.3 | 52.1 | 38.7 | 13.4 | 42.6 | 37.7 | NW. | NW. | NW. | 148.1 | .111 | |

*Dash (—) in rainfall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.

DECEMBER, 1885.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|-----------|----------|--|--|---------------------------------------|--|---|-------------|--------|----------------------|----------------|-----------------------|-----------------|--------------|------------|-------------|----------------------|-----------|-------------------|---------------------------------|-------------|-------------------------------|---------------------|-------------------------|---------------|-----|--|--|--|--|--|--|--|
| | | Total deaths, less those by violence. | Deaths by violence. | | | Deaths by ages. | | | | | Diphtheria. | Group. | Diarrhoeal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of lungs. | Pleurisy. | Nervous diseases. | Diseases of circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths, by color. | Total deaths. | | | | | | | | |
| | | | Accidents and negligence. | Homicide. | Suicide. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One-day old and under, less those by violence. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | W. C. | 6 | | | | 2 | 1 | 1 | 1 | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 2 | W. C. | 8 | | | | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | W. C. | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | W. C. | 9 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | W. C. | 11 | 2 | | | 2 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | W. C. | 9 | | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | W. C. | 3 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | W. C. | 8 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | W. C. | 1 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | W. C. | 6 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | W. C. | 6 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | W. C. | 9 | | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | W. C. | 4 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | W. C. | 7 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | W. C. | 10 | | | | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | W. C. | 4 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | W. C. | 3 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | W. C. | 2 | | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | W. C. | 4 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | W. C. | 3 | | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | W. C. | 3 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | W. C. | 6 | | | | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | W. C. | 4 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | W. C. | 11 | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | W. C. | 4 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | W. C. | 7 | | | | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | W. C. | 3 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | W. C. | 4 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | W. C. | 5 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | W. C. | 6 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | W. C. | 10 | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | W. C. | 8 | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | W. C. | 182 | 10 | 3 | 38 | 41 | 9 | 7 | 2 | 2 | 1 | 1 | 2 | 10 | 1 | 1 | 37 | 11 | 3 | 3 | 3 | 2 | 31 | 10 | 17 | 47 | 195 | | 356 | | | | | | | |
| Means | W. C. | 152 | 7 | 2 | 21 | 58 | 9 | 2 | 4 | 4 | 2 | 2 | 3 | 1 | 1 | 30 | 8 | 3 | 3 | 3 | 3 | 25 | 12 | 17 | 41 | 161 | | | | | | | | | | |

TABLE X—Continued.

DECEMBER, 1885.

Meteorological conditions.

| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew drop. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
|-----------------------|-------------------------|---------------|----------|----------|--------|----------------------|----------------------|--------------------|---------|----------|-------------------------|-----------------|---------------|
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 30.102 | 87.3 | 37.5 | 40.1 | 36.0 | 4.1 | 36.3 | 34.1 | N. | NE. | NE. | 152 | .06 | 1 |
| 29.945 | 75.7 | 38.2 | 45.4 | 34.3 | 11.1 | 35.5 | 30.8 | N. | N. | W. | 146 | ..... | 2 |
| 29.674 | 65.3 | 38.3 | 48.8 | 33.0 | 15.8 | 34.4 | 27.0 | S. | NW. | N. | 187 | * (—) | 3 |
| 29.649 | 65.7 | 40.5 | 45.4 | 30.2 | 15.2 | 36.4 | 29.7 | SW. | S. | S. | 116 | ..... | 4 |
| 29.514 | 66.7 | 34.5 | 47.7 | 28.4 | 19.3 | 31.3 | 24.2 | S. | NW. | NW. | 329 | .09 | 5 |
| 29.685 | 62.0 | 31.7 | 37.6 | 23.5 | 14.1 | 27.9 | 20.1 | SW. | SW. | SW. | 260 | ..... | 6 |
| 30.202 | 60.3 | 16.9 | 35.3 | 13.9 | 21.4 | 14.5 | 5.4 | NW. | W. | E. | 269 | ..... | 7 |
| 30.249 | 73.0 | 28.8 | 34.9 | 14.5 | 20.4 | 26.4 | 21.6 | SW. | SW. | SE. | 75 | ..... | 8 |
| 29.753 | 94.3 | 44.6 | 53.5 | 33.0 | 20.5 | 44.1 | 43.0 | SE. | ..... | S. | 71 | .66 | 9 |
| 29.954 | 61.0 | 40.7 | 57.4 | 32.5 | 24.9 | 36.2 | 28.2 | NW. | N. | NW. | 206 | ..... | 10 |
| 30.459 | 72.7 | 31.7 | 27.0 | 28.2 | 8.8 | 29.0 | 24.6 | ..... | N. | NW. | 146 | ..... | 11 |
| 30.714 | 73.7 | 30.2 | 37.9 | 24.1 | 13.8 | 27.7 | 22.4 | N. | S. | SE. | 56 | ..... | 12 |
| 30.029 | 94.7 | 34.1 | 39.8 | 25.5 | 14.3 | 33.7 | 32.8 | N. | N. | SW. | 103 | 1.07 | 13 |
| 29.810 | 79.7 | 35.6 | 39.1 | 32.8 | 6.3 | 33.6 | 29.8 | SW. | N. | NW. | 108 | .14 | 14 |
| 30.175 | 69.3 | 32.4 | 38.6 | 25.6 | 13.0 | 29.3 | 22.9 | NW. | W. | SW. | 223 | ..... | 15 |
| 30.344 | 75.0 | 35.3 | 48.0 | 25.1 | 22.9 | 32.3 | 27.1 | ..... | N. | SE. | 44 | ..... | 16 |
| 30.287 | 80.0 | 38.0 | 48.4 | 29.0 | 19.4 | 35.7 | 32.1 | NE. | NW. | W. | 83 | ..... | 17 |
| 30.106 | 80.0 | 40.9 | 53.3 | 32.0 | 21.3 | 38.3 | 34.6 | W. | W. | SW. | 40 | ..... | 18 |
| 29.906 | 67.7 | 39.6 | 46.5 | 34.8 | 11.7 | 35.8 | 28.7 | W. | NW. | NW. | 309 | ..... | 19 |
| 30.151 | 60.0 | 35.7 | 39.1 | 30.0 | 9.1 | 31.5 | 22.3 | NW. | NW. | NW. | 352 | ..... | 20 |
| 30.091 | 55.7 | 49.1 | 61.9 | 30.1 | 31.8 | 41.9 | 31.7 | S. | SW. | NW. | 212 | ..... | 21 |
| 30.302 | 61.7 | 53.9 | 63.9 | 47.2 | 16.7 | 47.7 | 40.1 | SW. | W. | S. | 87 | ..... | 22 |
| 30.048 | 56.7 | 52.0 | 57.5 | 42.5 | 15.0 | 45.2 | 35.8 | S. | S. | SW. | 173 | * (—) | 23 |
| 30.143 | 56.3 | 46.1 | 54.9 | 37.5 | 17.4 | 40.5 | 31.6 | NW. | N. | NE. | 156 | ..... | 24 |
| 30.281 | 64.0 | 32.6 | 38.9 | 28.8 | 10.1 | 29.2 | 22.0 | N. | NE. | NE. | 199 | ..... | 25 |
| 30.311 | 57.3 | 28.6 | 36.2 | 25.8 | 10.4 | 24.7 | 15.3 | N. | N. | N. | 365 | ..... | 26 |
| 30.103 | 43.7 | 32.1 | 38.4 | ..... | ..... | 26.4 | 13.1 | N. | NW. | N. | 289 | ..... | 27 |
| 29.912 | 49.0 | 42.5 | 49.4 | 35.8 | 13.6 | 36.2 | 23.3 | W. | NW. | NW. | 163 | ..... | 28 |
| 30.074 | 71.7 | 37.7 | 46.7 | 31.6 | 15.1 | 34.5 | 28.9 | NW. | W. | NW. | 111 | ..... | 29 |
| 30.050 | 79.0 | 39.0 | 46.6 | 28.0 | 18.6 | 36.6 | 32.8 | ..... | S. | SE. | 52 | ..... | 30 |
| 29.885 | 81.7 | 43.7 | 52.4 | 37.8 | 14.6 | 41.4 | 38.1 | NE. | W. | W. | 162 | .65 | 31 |
| 931.908 | 2,140.9 | 1,162.5 | 1,420.6 | 911.5 | 470.7 | 1,054.2 | 854.1 | ..... | ..... | ..... | 5,244 | 2.67 | == |
| 30.062 | 69.1 | 37.5 | 45.8 | 30.4 | 15.7 | 34.0 | 27.6 | N. | N. | NW. | 169.2 | .086 | == |

* Dash (—) in rainfall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.

JANUARY, 1886.

| | | Mortality. | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---|---------------------|-----------------|---|--|---------------------------------------|--|----------------|-------------|--------|-----------------------|----------------|-----------------------|-----------------|--------------|------------|------------|----------------------|-------------------|---------------------------------|-------------|-------------------------------|---------------------|-------------------------|
| Day of month. | Color. | Total deaths, less those by violence, accidents and negligence. | Deaths by violence. | Deaths by ages. | | | | | | | | | | Mortality. | | | | | | | | | | | |
| | | | | Homicide. | On ground over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One-day old and under, less those by violence. | Scarlet fever. | Diphtheria. | Croup. | D difficult diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Fractures. | Congestion of lungs. | Nervous diseases. | Diseases of circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths, by color. | Total deaths. |
| 1.... | W. C. | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 |
| 2.... | W. C. | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 |
| 3.... | W. C. | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 |
| 4.... | W. C. | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 |
| 5.... | W. C. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| 6.... | W. C. | 5 | 3 | 1 | 4 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 17 |
| 7.... | W. C. | 4 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| 8.... | W. C. | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 |
| 9.... | W. C. | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 |
| 10.... | W. C. | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| 11.... | W. C. | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 |
| 12.... | W. C. | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 |
| 13.... | W. C. | 11 | 1 | 1 | 6 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 |
| 14.... | W. C. | 5 | 1 | 1 | 2 | 6 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 |
| 15.... | W. C. | 6 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 |
| 16.... | W. C. | 4 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 |
| 17.... | W. C. | 9 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 17 |
| 18.... | W. C. | 6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 |
| 19.... | W. C. | 10 | 1 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 16 |
| 20.... | W. C. | 6 | 1 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 |
| 21.... | W. C. | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 |
| 22.... | W. C. | 4 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 |
| 23.... | W. C. | 3 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| 24.... | W. C. | 10 | 1 | 1 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 |
| 25.... | W. C. | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| 26.... | W. C. | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 |
| 27.... | W. C. | 4 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18 |
| 28.... | W. C. | 12 | 4 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| 29.... | W. C. | 5 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 |
| 30.... | W. C. | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| 31.... | W. C. | 9 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 16 |
| Total | W. C. | 221 | 3 | 1 | 50 | 59 | 8 | 6 | 8 | 11 | 2 | 5 | 2 | 1 | 2 | 33 | 19 | 8 | 1 | 43 | 17 | 2 | 57 | 378 | |
| Means | C. | 143 | 6 | 4 | 17 | 64 | 10 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 36 | 17 | 8 | 6 | 19 | 7 | 12 | 9 | 153 | | |

TABLE X—Continued.

JANUARY, 1886.

Meteorological conditions.

| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
|-----------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|-----------------|---------------|
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 30.244 | 78.3 | 40.9 | 53.2 | 34.4 | 18.8 | 38.1 | 34.0 | W. | S. | 0 | 63 | ..... | 1 |
| 30.351 | 80.0 | 39.9 | 50.4 | 30.5 | 19.9 | 37.6 | 34.0 | N. | SE. | E. | 76 | ..... | 2 |
| 30.190 | 92.3 | 46.7 | 52.9 | 35.1 | 17.8 | 45.6 | 44.4 | E. | E. | E. | 117 | ..... | 3 |
| 29.675 | 84.3 | 55.1 | 59.9 | 49.5 | 10.4 | 52.8 | 50.2 | SE. | SE. | SW. | 337 | ‡2.28 | 4 |
| 29.684 | 59.7 | 38.8 | 53.6 | 33.2 | 20.4 | 34.2 | 25.9 | NW. | N. | NW. | 168 | *(-)† | 5 |
| 29.842 | 71.0 | 30.0 | 35.4 | 24.5 | 10.9 | 27.4 | 22.0 | W. | NW. | NW. | 146 | ..... | 6 |
| 29.982 | 80.3 | 28.3 | 34.7 | 21.3 | 13.4 | 26.6 | 23.0 | NW. | NW. | NW. | 266 | ..... | 7 |
| 29.706 | 87.0 | 23.9 | 28.4 | 19.4 | 9.0 | 23.0 | 20.7 | NW. | E. | NE. | 167 | {\$.25 ‡.23} | 8 |
| 29.261 | 87.7 | 18.0 | 27.1 | 13.6 | 13.5 | 17.3 | 14.9 | NW. | NW. | W. | 349 | ..... | 9 |
| 29.785 | 68.3 | 11.9 | 19.1 | 8.6 | 10.5 | 10.2 | 3.0 | W. | NW. | NW. | 336 | ..... | 10 |
| 30.192 | 77.7 | 9.2 | 14.5 | 6.1 | 8.4 | 8.2 | 3.7 | NW. | NW. | NW. | 211 | ..... | 11 |
| 30.514 | 80.0 | 6.9 | 14.7 | 2.6 | 12.1 | 6.1 | 2.1 | NW. | NW. | 0 | 156 | ..... | 12 |
| 30.631 | 80.3 | 9.0 | 20.4 | -0.6 | 21.0 | 8.0 | 4.2 | N. | W. | NW. | 49 | ..... | 13 |
| 30.808 | 83.3 | 12.5 | 27.8 | -1.2 | 29.0 | 11.4 | 8.3 | NW. | NE. | E. | 45 | ..... | 14 |
| 30.577 | 82.7 | 18.9 | 32.6 | 4.5 | 28.1 | 17.7 | 14.6 | 0 | S. | SE. | 43 | ..... | 15 |
| 30.145 | 84.0 | 28.0 | 32.0 | 19.9 | 12.1 | 26.7 | 23.9 | SE. | NE. | NE. | 72 | .17 | 16 |
| 30.083 | 71.0 | 33.4 | 41.6 | 24.8 | 16.8 | 30.3 | 24.2 | W. | NW. | N. | 115 | ..... | 17 |
| 30.219 | 83.3 | 29.6 | 33.1 | 23.8 | 9.3 | 28.1 | 25.1 | N. | S. | E. | 85 | ‡.03 | 18 |
| 30.064 | 80.3 | 35.4 | 38.7 | 28.9 | 9.8 | 33.5 | 29.3 | NE. | SW. | N. | 94 | .33 | 19 |
| 30.403 | 85.3 | 33.0 | 39.6 | 28.6 | 11.0 | 31.6 | 29.2 | N. | S. | SE. | 137 | ..... | 20 |
| 30.034 | 81.7 | 35.6 | 41.5 | 30.0 | 11.5 | 33.7 | 30.3 | E. | N. | NW. | 129 | .35 | 21 |
| 30.001 | 74.3 | 33.4 | 41.9 | 26.7 | 15.2 | 30.8 | 25.7 | N. | S. | NW. | 111 | .01 | 22 |
| 30.403 | 80.0 | 22.5 | 37.1 | 17.4 | 19.7 | 21.0 | 17.4 | NW. | NW. | NW. | 188 | ..... | 23 |
| 30.416 | 88.7 | 16.4 | 19.6 | 12.8 | 6.8 | 15.7 | 13.8 | N. | N. | NE. | 144 | ‡.45 | 24 |
| 30.185 | 91.7 | 24.3 | 27.9 | 16.8 | 11.1 | 23.7 | 22.2 | N. | N. | N. | 164 | ‡.02 | 25 |
| 30.168 | 82.7 | 36.0 | 44.5 | 26.6 | 17.9 | 34.0 | 30.8 | N. | N. | N. | 138 | ..... | 26 |
| 29.979 | 92.3 | 36.0 | 37.5 | 33.5 | 4.0 | 35.3 | 33.8 | N. | N. | N. | 166 | .52 | 27 |
| 29.710 | 96.0 | 37.4 | 40.1 | 34.6 | 5.5 | 37.1 | 36.4 | N. | N. | N. | 136 | .16 | 28 |
| 29.580 | 75.7 | 41.8 | 47.3 | 37.0 | 10.3 | 38.9 | 34.1 | N. | N. | N. | 166 | .04 | 29 |
| 29.663 | 85.0 | 30.7 | 42.6 | 25.8 | 16.8 | 29.4 | 26.7 | N. | NW. | W. | 195 | ‡.17 | 30 |
| 29.771 | 79.3 | 33.3 | 39.5 | 24.7 | 14.8 | 31.3 | 27.6 | S. | SW. | N. | 139 | *(-)† | 31 |
| 932.266 | 2,524.2 | 896.8 | 1,129.2 | 693.4 | 435.8 | 845.3 | 735.5 | ..... | ..... | ..... | 4,708 | 5.01 | |
| 30.073 | 81.4 | 28.9 | 36.4 | 22.4 | 14.1 | 27.3 | 23.7 | N. | NW. | NW. | 151.9 | 1.62 | |

* Dash (-) in rainfall column indicates precipitation inappreciable.

† Melted sleet, snow, and rain. ‡ Melted snow. § Melted snow and sleet. || Melted sleet and rain.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.

FEBRUARY, 1886.

[illegible]

TABLE X—Continued.

FEBRUARY, 1886.

Meteorological conditions.

| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
|-----------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|-----------------|---------------|
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 30.100 | 86.3 | 24.0 | 34.9 | 19.3 | 15.6 | 22.9 | 20.6 | N. | NW. | NW. | 206 | * (—) † | 1 |
| 30.289 | 81.0 | 30.5 | 35.9 | 21.5 | 14.4 | 28.7 | 25.3 | NW. | SW. | S. | 130 | ..... | 2 |
| 30.187 | 95.7 | 15.5 | 34.8 | 11.4 | 23.4 | 15.3 | 14.5 | NE. | N. | N. | 191 | †.81 | 3 |
| 30.167 | 98.3 | 10.0 | 15.0 | 7.9 | 7.1 | 9.7 | 8.4 | N. | N. | NW. | 305 | †.09 | 4 |
| 30.545 | 82.3 | 6.5 | 14.2 | 2.3 | 16.5 | 5.7 | 2.2 | NW. | NW. | W. | 263 | (†) | 5 |
| 30.286 | 79.0 | 20.3 | 26.6 | 8.8 | 17.8 | 18.8 | 14.8 | 0 | S. | NE. | 82 | ..... | 6 |
| 30.148 | 72.3 | 29.6 | 41.6 | 21.2 | 20.4 | 26.8 | 21.3 | NE. | NE. | NW. | 54 | ..... | 7 |
| 30.070 | 84.3 | 30.1 | 45.5 | 14.1 | 31.4 | 28.2 | 24.9 | NW. | S. | 0 | 34 | ..... | 8 |
| 30.124 | 75.0 | 38.1 | 54.2 | 18.7 | 35.5 | 34.7 | 30.0 | 0 | S. | E. | 45 | ..... | 9 |
| 30.348 | 76.3 | 39.6 | 50.4 | 29.7 | 20.7 | 36.5 | 31.1 | NE. | E. | NE. | 122 | ..... | 10 |
| 30.258 | 96.3 | 39.2 | 43.5 | 36.1 | 7.4 | 38.9 | 38.4 | NE. | NE. | NE. | 225 | .91 | 11 |
| 29.867 | 98.7 | 42.4 | 46.0 | 37.6 | 8.4 | 42.3 | 42.0 | NE. | E. | N. | 97 | 1.15 | 12 |
| 29.656 | 87.3 | 42.5 | 47.5 | 39.5 | 8.0 | 41.1 | 38.9 | W. | NW. | W. | 90 | .13 | 13 |
| 29.847 | 74.7 | 47.5 | 57.4 | 33.2 | 24.2 | 43.7 | 39.8 | S. | S. | S. | 124 | ..... | 14 |
| 29.924 | 71.3 | 50.0 | 67.5 | 38.6 | 28.9 | 45.5 | 40.3 | SW. | SW. | NW. | 216 | .03 | 15 |
| 30.363 | 73.3 | 32.9 | 39.8 | 29.4 | 10.4 | 30.3 | 25.2 | NW. | NW. | N. | 233 | ..... | 16 |
| 30.326 | 74.3 | 31.1 | 36.6 | 26.4 | 10.2 | 28.6 | 23.7 | E. | S. | S. | 161 | ..... | 17 |
| 30.181 | 63.3 | 41.0 | 53.3 | 29.0 | 24.3 | 36.2 | 28.3 | SW. | S. | S. | 119 | ..... | 18 |
| 29.759 | 56.0 | 43.6 | 53.1 | 34.2 | 18.9 | 37.8 | 28.0 | S. | S. | NW. | 193 | ..... | 19 |
| 29.939 | 66.0 | 24.5 | 43.0 | 20.2 | 22.8 | 21.8 | 15.0 | NW. | NW. | W. | 503 | * (—) | 20 |
| 29.988 | 52.3 | 34.6 | 42.9 | 20.2 | 22.7 | 20.4 | 17.4 | SW. | SW. | S. | 178 | ..... | 21 |
| 30.137 | 60.7 | 36.5 | 44.1 | 32.0 | 12.1 | 32.2 | 23.8 | NW. | SW. | S. | 187 | ..... | 22 |
| 30.216 | 73.7 | 37.9 | 51.6 | 29.2 | 22.4 | 34.9 | 30.2 | SW. | NW. | NW. | 193 | ..... | 23 |
| 30.371 | 60.7 | 36.7 | 47.1 | 30.6 | 16.5 | 32.4 | 23.9 | 0 | S. | SE. | 119 | ..... | 24 |
| 29.605 | 89.3 | 40.1 | 48.8 | 32.6 | 16.2 | 38.8 | 36.8 | SE. | S. | NW. | 98 | \$1.19 .01 | 25 |
| 29.850 | 61.3 | 24.4 | 46.2 | 16.2 | 30.0 | 21.4 | 13.2 | NW. | NW. | NW. | 631 | ..... | 26 |
| 30.154 | 72.7 | 24.2 | 30.3 | 16.3 | 14.0 | 22.0 | 16.9 | NW. | NW. | NW. | 322 | ..... | 27 |
| 30.148 | 75.7 | 27.2 | 35.5 | 18.6 | 16.9 | 25.2 | 20.6 | NW. | N. | N. | 192 | ..... | 28 |
| 842.853 | 2,133.1 | 900.5 | 1,187.3 | 670.5 | 516.8 | 829.9 | 694.5 | ..... | ..... | ..... | 5,313 | 4.32 | |
| 30.102 | 76.2 | 32.2 | 42.4 | 23.9 | 18.5 | 29.6 | 24.8 | NW. | S. | NW. | 189.8 | .154 | |

* Dash (—) in rainfall column indicates precipitation inappreciable.

† Melted snow.

‡ Melted sleet.

§ Sleet and rain.

|| Snow and rain.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.

MARCH, 1886.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Total deaths less those by violence. | Deaths by violence. | Accidents and negli- gence. | Homicide. | Suicide. | Deaths by ages. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 5 days, less those by violence. | One-day old and under, less those by violence. | Scarlet fever. | Diphtheria. | Croup. | Diarrheal diseases. | Typhoid fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of lungs. | Pleurisy. | Nervous diseases. | Diseases of circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths, by color. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1..... | W. C. | 2 | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |

* Injury received during the war.

TABLE X—Continued.

MARCH, 1886.

Meteorological conditions.

| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
|-----------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|----------|----------|-------------------------|-----------------|---------------|
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 30.125 | 83.0 | 24.6 | 32.5 | 20.0 | 12.5 | 23.4 | 20.2 | N. | NW. | NW. | 257 | ..... | 1 |
| 29.981 | 71.3 | 23.6 | 30.8 | 13.2 | 17.6 | 21.2 | 15.4 | NW. | NW. | NW. | 514 | ..... | 2 |
| 30.053 | 69.3 | 30.9 | 38.5 | 22.7 | 15.8 | 27.6 | 21.1 | NW. | NW. | NW. | 462 | ..... | 3 |
| 30.138 | 67.7 | 33.5 | 42.1 | 26.1 | 16.0 | 30.1 | 23.1 | N. | N. | N. | 245 | ..... | 4 |
| 30.036 | 76.7 | 33.9 | 42.2 | 28.0 | 14.2 | 31.6 | 27.4 | NW. | N. | N. | 129 | ..... | 5 |
| 30.018 | 72.3 | 35.2 | 46.3 | 25.2 | 21.1 | 32.0 | 26.8 | N. | N. | N. | 112 | ..... | 6 |
| 30.049 | 60.7 | 35.1 | 44.0 | 25.7 | 18.3 | 30.9 | 22.5 | N. | S. | S. | 93 | ..... | 7 |
| 29.847 | 79.7 | 37.9 | 45.9 | 29.7 | 16.2 | 35.6 | 31.8 | S. | S. | SW. | 83 | ↑.18 | 8 |
| 29.898 | 50.3 | 39.1 | 45.6 | 35.3 | 10.3 | 33.5 | 22.3 | NW. | N. | N. | 183 | ..... | 9 |
| 30.044 | 65.0 | 34.7 | 41.1 | 31.7 | 9.4 | 31.1 | 23.7 | N. | N. | NW. | 212 | *(-)† | 10 |
| 30.104 | 57.3 | 39.5 | 50.9 | 28.8 | 22.1 | 34.3 | 24.7 | NW. | S. | S. | 180 | ..... | 11 |
| 29.618 | 74.3 | 44.0 | 49.8 | 36.5 | 13.3 | 40.8 | 35.5 | SW. | SW. | S. | 281 | ↑.31 | 12 |
| 29.501 | 68.0 | 41.8 | 50.2 | 36.2 | 14.0 | 37.7 | 30.6 | 0 | NW. | W. | 185 | ..... | 13 |
| 29.965 | 57.0 | 47.0 | 58.2 | 34.0 | 24.2 | 41.0 | 32.0 | NW. | S. | S. | 158 | ..... | 14 |
| 29.987 | 69.3 | 53.6 | 68.0 | 45.4 | 22.6 | 48.3 | 42.4 | S. | S. | SW. | 138 | ..... | 15 |
| 30.049 | 58.3 | 52.7 | 68.9 | 43.6 | 25.3 | 45.4 | 35.0 | S. | N. | N. | 222 | ..... | 16 |
| 30.269 | 60.0 | 46.0 | 58.4 | 34.1 | 24.3 | 40.0 | 31.8 | N. | S. | S. | 100 | ..... | 17 |
| 30.103 | 68.0 | 46.3 | 57.8 | 34.0 | 22.9 | 41.6 | 35.2 | S. | S. | SE. | 151 | ..... | 18 |
| 29.940 | 85.7 | 47.6 | 57.4 | 41.8 | 15.6 | 45.5 | 43.4 | N. | E. | NE. | 136 | .01 | 19 |
| 29.636 | 97.3 | 50.7 | 60.3 | 43.4 | 16.9 | 50.3 | 50.0 | NE. | E. | S. | 130 | .84 | 20 |
| 29.365 | 50.7 | 55.5 | 65.8 | 46.2 | 19.6 | 47.2 | 35.5 | NW. | SW. | NW. | 302 | .11 | 21 |
| 29.626 | 55.3 | 42.3 | 48.1 | 38.0 | 10.1 | 36.9 | 27.1 | W. | NW. | W. | 274 | ..... | 22 |
| 29.867 | 57.0 | 35.6 | 39.7 | 32.0 | 7.0 | 31.0 | 21.3 | NW. | NW. | NW. | 430 | ..... | 23 |
| 30.138 | 53.7 | 42.1 | 55.9 | 29.0 | 26.9 | 35.6 | 22.1 | NW. | NW. | S. | 301 | ..... | 24 |
| 29.938 | 64.7 | 51.5 | 64.4 | 36.3 | 28.0 | 46.0 | 39.4 | 0 | S. | S. | 87 | ..... | 25 |
| 30.136 | 71.7 | 46.0 | 57.0 | 42.3 | 14.7 | 42.2 | 36.5 | N. | SW. | NW. | 125 | .21 | 26 |
| 30.127 | 91.0 | 40.7 | 44.7 | 38.2 | 6.5 | 39.7 | 38.3 | NE. | SE. | N. | 138 | 1.16 | 27 |
| 30.351 | 83.0 | 42.0 | 47.4 | 37.3 | 10.1 | 40.0 | 37.0 | N. | E. | E. | 154 | ..... | 28 |
| 30.263 | 94.3 | 40.9 | 42.8 | 37.4 | 5.4 | 40.3 | 39.3 | E. | NE. | NE. | 135 | .47 | 29 |
| 29.979 | 99.0 | 46.4 | 50.0 | 40.1 | 9.9 | 46.2 | 46.1 | E. | NW. | E. | 82 | 1.30 | 30 |
| 29.668 | 82.3 | 60.0 | 66.7 | 49.6 | 17.1 | 57.1 | 54.1 | S. | SE. | SW. | 300 | 1.82 | 31 |
| 938.819 | 2,193.9 | 1,300.7 | 1,571.4 | 1,062.7 | 508.7 | 1,184.5 | 991.6 | ..... | ..... | ..... | 6,299 | 6.41 | |
| 29.960 | 70.8 | 42.0 | 50.7 | 34.3 | 16.4 | 38.2 | 32.0 | N. & NW. | S. & NW. | S. | 203.2 | .207 | |

* Dash (—) in rainfall column indicates precipitation inappreciable.

† Melted snow.

‡ Melted snow and rain.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.

APRIL, 1886.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|---------------------|-----------|---|--|--|---------------------------------------|--|----------------|-------------|--------|---------------------|----------------|-----------------------|-----------------|--------------|------------|-------------|----------------------|-------------------|---------------------------------|-------------|-------------------------------|---------------------|------------------------|---------------|--|
| | | Total deaths, less those by violence. | Deaths by violence. | | | Deaths by ages. | | | | | Scarlet fever. | Diphtheria. | Croup. | Diarrheal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of lungs. | Nervous diseases. | Diseases of circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths by color. | Total deaths. | |
| | | | Accidents and negligence. | Judicial execution. | Homicide. | 60 years of age and over, less those by violence. | Under 5 years, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One-day old and under, less those by violence. | | | | | | | | | | | | | | | | | | | |
| 1..... | W. C. | 9 | | | | 4 | 2 | | | | | | | | | | | 2 | 2 | | | | | | | 1 | 2 | 21 | |
| | C. | 11 | 1 | | | 7 | 1 | | | | | 1 | | | | | | 1 | 1 | 2 | | | | | | 12 | 4 | 12 | |
| 2..... | W. C. | 4 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 8 | | | | 2 | 4 | | | | | | | 1 | | | | | | | | | | | | | | | |
| 3..... | W. C. | 6 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 4 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 4..... | W. C. | 2 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 4 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5..... | W. C. | 6 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 3 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 6..... | W. C. | 3 | | | | 1 | 4 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 8 | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 7..... | W. C. | 8 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 6 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 8..... | W. C. | 8 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 9 | | | | 2 | 7 | | | | | | | | | | | | | | | | | | | | | | |
| 9..... | W. C. | 8 | | | | 5 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 12 | | | | 2 | 6 | | | | | | | | | | | | | | | | | | | | | | |
| 10..... | W. C. | 7 | | | | 3 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 8 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 11..... | W. C. | 9 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 5 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 12..... | W. C. | 8 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 7 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 13..... | W. C. | 4 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 9 | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 14..... | W. C. | 6 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 1 | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 15..... | W. C. | 6 | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 1 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 16..... | W. C. | 3 | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 5 | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 17..... | W. C. | 6 | | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 3 | | | | 1 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| 18..... | W. C. | 4 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 9 | | | | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 19..... | W. C. | 6 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 3 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 20..... | W. C. | 6 | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 6 | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 21..... | W. C. | 4 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 3 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 22..... | W. C. | 8 | | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 7 | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 23..... | W. C. | 6 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 8 | | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 24..... | W. C. | 4 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 12 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 25..... | W. C. | 6 | | | | 4 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 6 | | | | 1 | 4 | | | | | | | | | | | | | | | | | | | | | | |
| 26..... | W. C. | 3 | | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 6 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 27..... | W. C. | 6 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 3 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 28..... | W. C. | 6 | | | | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 4 | | | | 1 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| 29..... | W. C. | 10 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 6 | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 30..... | W. C. | 5 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | C. | 8 | | | | 1 | 4 | | | | | | | | | | | | | | | | | | | | | | |

TABLE X—Continued.

APRIL, 1886.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|-----------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 29.888 | 60.7 | 49.8 | 56.7 | 42.2 | 14.5 | 44.0 | 36.1 | SW. | SW. | S. | 301 | ..... | 1 |
| 30.048 | 52.0 | 52.8 | 61.8 | 44.3 | 17.5 | 45.3 | 35.2 | NW. | N. | NE. | 152 | ..... | 2 |
| 30.084 | 81.3 | 43.3 | 51.9 | 40.2 | 11.7 | 41.0 | 37.9 | N. | N. | NE. | 184 | *(-) | 3 |
| 30.137 | 93.0 | 36.5 | 41.6 | 34.5 | 7.1 | 36.5 | 34.6 | E. | E. | NE. | 168 | .47 | 4 |
| 29.988 | 97.0 | 38.0 | 39.7 | 35.0 | 4.7 | 37.8 | 37.3 | NE. | NE. | E. | 246 | .62 | 5 |
| 29.488 | 89.3 | 43.9 | 48.3 | 39.0 | 9.3 | 42.6 | 40.9 | SW. | W. | SW. | 210 | 1.07 | 6 |
| 29.800 | 74.7 | 39.8 | 46.3 | 35.0 | 11.3 | 36.8 | 32.3 | S. | W. | NW. | 166 | *(-) | 7 |
| 30.190 | 70.7 | 41.5 | 49.2 | 35.2 | 14.0 | 37.7 | 32.4 | NW. | NW. | NW. | 275 | ..... | 8 |
| 30.311 | 65.3 | 50.1 | 62.2 | 36.0 | 26.2 | 44.7 | 37.9 | 0 | S. | S. | 103 | ..... | 9 |
| 30.205 | 70.0 | 59.2 | 71.1 | 43.6 | 27.5 | 53.6 | 48.4 | S. | S. | 0 | 73 | ..... | 10 |
| 30.387 | 79.7 | 50.5 | 60.8 | 45.8 | 15.0 | 47.5 | 44.1 | E. | E. | E. | 231 | ..... | 11 |
| 30.352 | 79.3 | 58.2 | 69.2 | 45.0 | 24.2 | 54.2 | 50.7 | E. | SW. | SE. | 112 | *(-) | 12 |
| 30.195 | 78.3 | 64.1 | 76.6 | 54.1 | 22.5 | 59.8 | 56.5 | S. | SW. | SW. | 73 | .41 | 13 |
| 30.235 | 76.3 | 63.1 | 73.1 | 49.9 | 23.2 | 58.5 | 54.9 | 0 | SE. | S. | 91 | ..... | 14 |
| 30.297 | 80.3 | 57.4 | 67.6 | 48.2 | 19.4 | 53.9 | 50.6 | NE. | SE. | E. | 108 | ..... | 15 |
| 30.434 | 91.3 | 49.3 | 56.9 | 43.1 | 13.8 | 48.0 | 46.7 | E. | E. | E. | 166 | *(-) | 16 |
| 30.472 | 85.0 | 53.4 | 63.1 | 47.0 | 16.1 | 50.9 | 48.7 | NE. | E. | E. | 165 | .05 | 17 |
| 30.403 | 77.0 | 57.3 | 70.7 | 44.2 | 26.5 | 53.0 | 49.4 | NE. | S. | S. | 104 | ..... | 18 |
| 30.267 | 66.7 | 64.4 | 79.1 | 44.9 | 34.2 | 57.1 | 51.5 | 0 | S. | S. | 57 | ..... | 19 |
| 30.177 | 69.3 | 65.8 | 80.4 | 50.6 | 29.8 | 59.4 | 54.5 | NW. | S. | NE. | 80 | *(-) | 20 |
| 30.156 | 73.7 | 61.4 | 72.2 | 51.1 | 21.1 | 56.3 | 52.0 | NE. | SW. | S. | 103 | ..... | 21 |
| 30.078 | 61.7 | 68.3 | 82.0 | 53.6 | 28.4 | 59.7 | 52.7 | S. | NW. | S. | 65 | ..... | 22 |
| 29.936 | 64.3 | 69.7 | 85.0 | 55.9 | 29.1 | 61.3 | 55.0 | 0 | 0 | S. | 64 | ..... | 23 |
| 29.875 | 59.0 | 72.1 | 88.1 | 58.6 | 29.5 | 62.0 | 54.4 | S. | SW. | NE. | 135 | .01 | 24 |
| 29.973 | 73.7 | 65.9 | 80.7 | 55.8 | 24.9 | 60.2 | 56.1 | NW. | S. | E. | 135 | .02 | 25 |
| 29.881 | 87.3 | 60.8 | 69.0 | 51.9 | 17.1 | 58.4 | 56.7 | NE. | E. | E. | 105 | .02 | 26 |
| 29.860 | 91.0 | 58.9 | 67.9 | 55.0 | 12.9 | 57.3 | 56.0 | N. | E. | E. | 141 | *(-) | 27 |
| 29.917 | 81.0 | 59.0 | 64.9 | 54.6 | 10.3 | 55.8 | 53.0 | NW. | S. | S. | 86 | .04 | 28 |
| 29.808 | 73.7 | 58.3 | 69.9 | 50.1 | 19.8 | 53.6 | 49.3 | NE. | E. | E. | 160 | ..... | 29 |
| 29.897 | 69.3 | 51.7 | 59.8 | 44.1 | 15.7 | 47.0 | 41.4 | NE. | E. | NE. | 222 | ..... | 30 |
| 902.830 | 2,271.9 | 1,664.5 | 1,905.8 | 1,388.5 | 577.3 | 1,533.9 | 1,407.2 | ..... | ..... | ..... | 4,281 | 2.71 | |
| 30.691 | 75.7 | 55.5 | 65.5 | 46.3 | 19.2 | 51.1 | 46.9 | NE. | S. | E. | 142.7 | .090 | |

*Dash (-) in rainfall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

TABLE X—Continued.

MAY, 1886.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|----------------------------|---------------------|-----------|---|--|---------------------------------------|--|----------------|-------------|---------------------|----------------|-----------------------|------------------|--------------|------------|-------------|-----------------------|-----------|-------------------|----------------------------------|-------------|-------------------------------|-------------|------------------------|---------------|-----|
| | | Total deaths, less those by violence. | Deaths by violence. | | | Deaths by ages. | | | | Scarlet fever. | Diphtheria. | Diarrheal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fevers. | Consumption. | Pneumonia. | Bronchitis. | Congest ion of lungs. | Fluorisy. | Nervous diseases. | Diseases of circulatory or-gans. | Rheumatism. | Diseases of digestive organs. | All others. | Total deaths by color. | Total deaths. | |
| | | | Accidents and negli-gence. | Judicial execution. | Homicide. | 60 years of age and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One-day old and under, less those by violence. | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1..... | W. C. | 7 7 | | | | 3 | | | | | | | | | 1 | 3 | | | | | | | | | | | 7 | 14 |
| 2..... | W. C. | 6 6 | | | | 2 2 | | | | | | | | | | 2 2 | | | | | | | | | | | 6 | 7 |
| 3..... | W. C. | 1 1 | | | | 1 1 | | | | | | | | | | 1 1 | | | | | | | | | | | 1 | 7 |
| 4..... | W. C. | 6 6 | | | | 2 2 | | | | | | | | | | 1 1 | | | | | | | | | | | 6 | 13 |
| 5..... | W. C. | 4 4 | | | | 2 2 | | | | | | | | | | 1 1 | | | | | | | | | | | 4 | 7 |
| 6..... | W. C. | 2 6 | | | | 2 2 | | | | | | | | | | 2 2 | | | | | | | | | | | 3 | 17 |
| 7..... | W. C. | 9 9 | | | | 1 1 | | | | | | | | | | 1 1 | | | | | | | | | | | 10 | 17 |
| 8..... | W. C. | 7 7 | | | | 2 2 | | | | | | | | | | 2 2 | | | | | | | | | | | 8 | 13 |
| 9..... | W. C. | 5 5 | | | | 1 1 | | | | | | | | | | 1 1 | | | | | | | | | | | 5 | 8 |
| 10..... | W. C. | 4 4 | | | | 2 2 | | | | | | | | | | 1 1 | | | | | | | | | | | 4 | 9 |
| 11..... | W. C. | 3 3 | | | | 1 1 | | | | | | | | | | 1 1 | | | | | | | | | | | 3 | 12 |
| 12..... | W. C. | 8 8 | | | | 3 3 | | | | | | | | | | 2 2 | | | | | | | | | | | 8 | 17 |
| 13..... | W. C. | 5 5 | | | | 2 2 | | | | | | | | | | 1 1 | | | | | | | | | | | 5 | 13 |
| 14..... | W. C. | 4 4 | | | | 1 1 | | | | | | | | | | 1 1 | | | | | | | | | | | 4 | 8 |
| 15..... | W. C. | 3 3 | | | | 2 2 | | | | | | | | | | 2 2 | | | | | | | | | | | 3 | 10 |
| 16..... | W. C. | 6 6 | | | | 1 1 | | | | | | | | | | 1 1 | | | | | | | | | | | 6 | 15 |
| 17..... | W. C. | 4 4 | | | | 2 2 | | | | | | | | | | 1 1 | | | | | | | | | | | 4 | 9 |
| 18..... | W. C. | 8 8 | | | | 2 2 | | | | | | | | | | 2 2 | | | | | | | | | | | 8 | 10 |
| 19..... | W. C. | 2 2 | | | | 1 1 | | | | | | | | | | 1 1 | | | | | | | | | | | 2 | 5 |
| 20..... | W. C. | 3 3 | | | | 2 2 | | | | | | | | | | 1 1 | | | | | | | | | | | 3 | 7 |
| 21..... | W. C. | 4 4 | | | | 1 1 | | | | | | | | | | 1 1 | | | | | | | | | | | 4 | 10 |
| 22..... | W. C. | 3 3 | | | | 2 2 | | | | | | | | | | 2 2 | | | | | | | | | | | 3 | 16 |
| 23..... | W. C. | 7 7 | | | | 2 2 | | | | | | | | | | 1 1 | | | | | | | | | | | 7 | 11 |
| 24..... | W. C. | 10 6 | | | | 4 | | | | | | | | | | 3 3 | | | | | | | | | | | 10 | 116 |
| 25..... | W. C. | 2 2 | | | | 1 1 | | | | | | | | | | 2 2 | | | | | | | | | | | 2 | 6 |
| 26..... | W. C. | 4 4 | | | | 1 1 | | | | | | | | | | 1 1 | | | | | | | | | | | 4 | 9 |
| 27..... | W. C. | 5 5 | | | | 1 1 | | | | | | | | | | 2 2 | | | | | | | | | | | 5 | 4 |
| 28..... | W. C. | 3 3 | | | | 2 2 | | | | | | | | | | 1 1 | | | | | | | | | | | 3 | 13 |
| 29..... | W. C. | 8 8 | | | | 3 3 | | | | | | | | | | 2 2 | | | | | | | | | | | 8 | 9 |
| 30..... | W. C. | 1 1 | | | | 3 3 | | | | | | | | | | 1 1 | | | | | | | | | | | 2 | 13 |
| 31..... | W. C. | 4 4 | | | | 1 1 | | | | | | | | | | 1 1 | | | | | | | | | | | 4 | 11 |
| 32..... | W. C. | 7 7 | | | | 2 2 | | | | | | | | | | 2 2 | | | | | | | | | | | 7 | 6 |
| 33..... | W. C. | 6 6 | | | | 2 2 | | | | | | | | | | 3 3 | | | | | | | | | | | 6 | 13 |
| Total | W. C. | 159 163 | 4 7 | 1 1 | 3 1 | 43 28 | 29 60 | 5 10 | 4 9 | 1 2 | 3 1 | 4 2 | 1 1 | 2 4 | 28 44 | 10 13 | 1 4 | 1 2 | 1 1 | 26 29 | 14 7 | 5 1 | 12 5 | 43 54 | 158 171† | 329† | | |
| Means | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Deaths from injuries received during the late civil war.

† One male Indian.

TABLE X—Continued.

MAY, 1886.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 29.833 | 65.7 | 52.5 | 57.7 | 45.9 | 11.8 | 47.2 | 40.9 | NE. | NE. | N. | 225 | ..... | 1 |
| 29.892 | 50.0 | 60.3 | 72.9 | 52.1 | 20.8 | 50.8 | 39.7 | N. | NE. | E. | 230 | ..... | 2 |
| 30.073 | 63.3 | 62.8 | 77.7 | 43.4 | 34.3 | 55.3 | 48.6 | NW. | NW. | S. | 83 | ..... | 3 |
| 29.983 | 66.3 | 66.8 | 80.7 | 53.1 | 27.6 | 59.7 | 54.5 | SW. | S. | SW. | 108 | ..... | 4 |
| 29.895 | 71.3 | 69.0 | 83.8 | 60.2 | 23.6 | 62.5 | 58.0 | S. | SW. | SW. | 185 | .02 | 5 |
| 29.942 | 87.3 | 63.0 | 71.0 | 58.3 | 12.7 | 60.6 | 58.9 | E. | S. | S. | 70 | .05 | 6 |
| 29.768 | 98.3 | 58.5 | 60.4 | 53.7 | 6.7 | 58.2 | 58.0 | NE. | E. | E. | 142 | 2.35 | 7 |
| 29.965 | 87.0 | 53.7 | 61.4 | 51.5 | 9.9 | 51.8 | 49.9 | N. | N. | N. | 338 | 2.14 | 8 |
| 29.954 | 63.3 | 62.1 | 72.9 | 49.9 | 23.0 | 55.1 | 48.3 | NW. | NW. | NW. | 133 | ..... | 9 |
| 29.872 | 81.3 | 66.5 | 75.1 | 57.4 | 17.7 | 62.9 | 60.5 | NE. | S. | NE. | 75 | ^a (—) | 10 |
| 29.945 | 93.0 | 63.3 | 70.8 | 59.0 | 11.8 | 62.2 | 61.2 | NE. | SW. | S. | 89 | .06 | 11 |
| 29.927 | 93.3 | 60.2 | 69.1 | 54.9 | 14.2 | 59.0 | 58.2 | E. | S. | E. | 123 | .27 | 12 |
| 29.812 | 90.7 | 60.3 | 66.5 | 56.4 | 10.1 | 58.7 | 57.5 | E. | NE. | NE. | 137 | .43 | 13 |
| 29.955 | 93.3 | 55.8 | 58.2 | 51.6 | 6.6 | 54.8 | 53.9 | SE. | SE. | SE. | 110 | .18 | 14 |
| 29.811 | 96.0 | 63.0 | 72.7 | 55.2 | 17.5 | 62.2 | 61.8 | S. | S. | SW. | 115 | .75 | 15 |
| 30.051 | 66.0 | 57.6 | 65.6 | 50.7 | 14.9 | 51.8 | 45.5 | N. | NW. | N. | 230 | .04 | 16 |
| 30.062 | 74.3 | 55.9 | 64.6 | 43.6 | 21.0 | 51.7 | 47.4 | NW. | NW. | ..... | 94 | ..... | 17 |
| 30.289 | 88.7 | 58.8 | 65.3 | 49.2 | 16.1 | 56.8 | 55.2 | SE. | S. | S. | 132 | .06 | 18 |
| 30.222 | 95.3 | 58.2 | 62.4 | 51.9 | 10.5 | 57.4 | 56.8 | S. | S. | S. | 83 | 1.35 | 19 |
| 29.999 | 95.3 | 63.8 | 68.6 | 58.1 | 10.5 | 63.0 | 62.4 | S. | S. | N. | 70 | .11 | 20 |
| 30.013 | 74.7 | 66.4 | 78.1 | 59.3 | 18.8 | 61.3 | 57.6 | NE. | S. | S. | 106 | ..... | 21 |
| 29.928 | 84.7 | 69.3 | 79.1 | 59.4 | 19.7 | 66.1 | 64.1 | S. | S. | S. | 116 | .06 | 22 |
| 29.876 | 81.3 | 71.7 | 81.4 | 59.4 | 22.0 | 67.5 | 65.3 | NW. | S. | NW. | 107 | 1.02 | 23 |
| 29.723 | 84.0 | 66.5 | 75.3 | 60.3 | 15.0 | 63.5 | 61.5 | NW. | N. | ..... | 97 | ^a (—) | 24 |
| 29.812 | 72.7 | 56.6 | 63.1 | 49.9 | 13.2 | 52.2 | 47.5 | N. | NW. | NW. | 258 | .92 | 25 |
| 29.938 | 72.3 | 55.8 | 64.3 | 45.0 | 19.3 | 51.4 | 46.8 | NW. | NW. | S. | 141 | ..... | 26 |
| 29.937 | 80.0 | 65.5 | 76.2 | 54.0 | 22.2 | 61.5 | 58.8 | SW. | S. | ..... | 150 | .19 | 27 |
| 29.882 | 75.7 | 61.7 | 71.5 | 55.2 | 16.3 | 57.2 | 53.3 | N. | N. | NW. | 12 | ..... | 28 |
| 29.975 | 75.7 | 65.1 | 75.2 | 51.7 | 23.5 | 60.3 | 56.8 | NW. | S. | SW. | ..... | ..... | 29 |
| 29.858 | 78.0 | 70.7 | 82.0 | 58.2 | 23.8 | 66.0 | 62.7 | SW. | S. | ..... | 64 | ..... | 30 |
| 29.894 | 95.0 | 64.2 | 69.8 | 61.0 | 8.8 | 63.4 | 62.7 | N. | NE. | NE. | 103 | .60 | 31 |
| 927.816 | 2,493.8 | 1,925.6 | 2,193.4 | 1,669.5 | 523.9 | 1,812.1 | 1,714.3 | ..... | ..... | ..... | 4,110 | 10.60 | |
| 29.930 | 80.4 | 62.1 | 70.8 | 53.9 | 16.9 | 58.5 | 55.3 | NW. | S. | S. | 132.6 | .342 | |

^aDash (—) in rainfall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.

Barometer corrected for temperature, elevation above sea, and instrumental error.

586 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

TABLE X—Continued.

JUNE, 1886.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|----------|--------------------------------------|---------------------------|-----------|--|--|---------------------------------------|--|----------------|-------------|--------|----------------|-----------------------|-----------------|--------------|------------|-------------|----------------------|-------------------|---------------------------------|-------------|-------------------------------|-------------|------------------------|---------------|---------------------|
| | | Total deaths less those by violence. | Deaths by violence. | | Deaths by ages. | | | | | | | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of lungs. | Nervous diseases. | Diseases of circulatory organs. | Rheumatism. | Diseases of digestive organs. | All others. | Total deaths by color. | Total deaths. | |
| | | | Accidents and negligence. | Homicide. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | 1 day old and under, less those by violence. | Scarlet fever. | Diphtheria. | Croup. | | | | | | | | | | | | | | | Diarrheal diseases. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1..... | W. C. C. | 4 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 11 | | |
| 2..... | W. C. C. | 6 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 6 | | |
| 3..... | W. C. C. | 10 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 20 | 20 | | |
| 4..... | W. C. C. | 9 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 9 | | |
| 5..... | W. C. C. | 5 | 5 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 14 | 14 | | |
| 6..... | W. C. C. | 8 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 | 11 | | |
| 7..... | W. C. C. | 5 | 5 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 12 | 12 | | |
| 8..... | W. C. C. | 3 | 3 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 5 | | |
| 9..... | W. C. C. | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 9 | | |
| 10..... | W. C. C. | 11 | 4 | 1 | 6 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 15 | 15 | | |
| 11..... | W. C. C. | 4 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 12 | 12 | | |
| 12..... | W. C. C. | 6 | 1 | 4 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | | |
| 13..... | W. C. C. | 9 | 5 | 1 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 14 | 14 | | |
| 14..... | W. C. C. | 3 | 1 | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 14 | 14 | | |
| 15..... | W. C. C. | 8 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 | 11 | | |
| 16..... | W. C. C. | 5 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 9 | | |
| 17..... | W. C. C. | 8 | 1 | 1 | 2 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 16 | 16 | | |
| 18..... | W. C. C. | 6 | 6 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 12 | | |
| 19..... | W. C. C. | 9 | 6 | 1 | 3 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 15 | 15 | | |
| 20..... | W. C. C. | 7 | 9 | 2 | 5 | 1 | 1 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 17 | 17 | | |
| 21..... | W. C. C. | 5 | 1 | 1 | 1 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 14 | 14 | | |
| 22..... | W. C. C. | 11 | 7 | 2 | 4 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 18 | 18 | | |
| 23..... | W. C. C. | 7 | 7 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | 13 | | |
| 24..... | W. C. C. | 6 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 14 | 14 | | |
| 25..... | W. C. C. | 9 | 10 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 19 | 19 | | |
| 26..... | W. C. C. | 7 | 4 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 12 | | |
| 27..... | W. C. C. | 6 | 3 | 1 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 10 | 10 | | |
| 28..... | W. C. C. | 7 | 7 | 1 | 2 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 12 | 12 | | |
| 29..... | W. C. C. | 8 | 1 | 1 | 1 | 2 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 15 | 15 | | |
| 30..... | W. C. C. | 10 | 9 | 4 | 2 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 19 | 19 | | |
| Total. | W. C. C. | 187 | 4 | 2 | 39 | 79 | 12 | 5 | 1 | 3 | 1 | 31 | 1 | 2 | 25 | 7 | 2 | 3 | 28 | 13 | 25 | 43 | 193 | 388 | | |
| Means. | W. C. C. | 189 | 4 | 2 | 21 | 83 | 16 | 7 | 1 | 1 | 1 | 20 | 1 | 1 | 51 | 7 | 4 | 2 | 20 | 18 | 14 | 47 | 195 | | | |

TABLE X—Continued.

JUNE, 1886.

Meteorological conditions.

| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
|-----------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|-------------|-------------------------|-----------------|---------------|
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 30.052 | 83.7 | 66.6 | 72.9 | 57.0 | 15.9 | 63.7 | 61.6 | NE. | E. | E. | 128 | ..... | 1 |
| 29.982 | 88.7 | 70.6 | 79.9 | 60.7 | 19.2 | 68.2 | 66.7 | NE. | S. | S. | 146 | .02 | 2 |
| 29.977 | 76.3 | 67.7 | 75.4 | 60.0 | 15.4 | 63.2 | 59.8 | SW. | NW. | NW. | 196 | *(-) | 3 |
| 30.131 | 78.7 | 61.0 | 75.4 | 52.5 | 22.9 | 57.4 | 54.2 | N. | SW. | 0 | 96 | ..... | 4 |
| 30.034 | 78.7 | 65.5 | 74.9 | 50.2 | 24.7 | 61.4 | 58.3 | 0 | S. | SE. | 85 | ..... | 5 |
| 30.088 | 80.7 | 68.4 | 78.5 | 57.4 | 21.1 | 64.6 | 62.1 | E. | S. | S. | 108 | ..... | 6 |
| 30.061 | 91.3 | 68.8 | 73.7 | 63.0 | 10.7 | 67.2 | 66.2 | S. | S. | S. | 106 | .04 | 7 |
| 30.072 | 78.7 | 74.3 | 84.3 | 68.0 | 16.3 | 69.4 | 66.5 | N. | N. | NE. | 88 | .06 | 8 |
| 29.902 | 94.3 | 70.9 | 74.1 | 64.8 | 9.3 | 70.1 | 69.3 | E. | SW. | S. | 106 | .18 | 9 |
| 29.753 | 81.7 | 73.0 | 82.9 | 67.0 | 15.9 | 69.0 | 66.6 | W. | N. | NE. | 77 | .01 | 10 |
| 29.909 | 81.7 | 71.7 | 81.0 | 64.4 | 16.6 | 67.7 | 65.3 | N. | NE. | N. | 130 | ..... | 11 |
| 30.066 | 79.7 | 73.9 | 83.8 | 60.7 | 23.1 | 69.4 | 67.0 | N. | SW. | NE. | 74 | ..... | 12 |
| 29.989 | 78.7 | 77.6 | 87.1 | 67.8 | 19.3 | 72.8 | 70.3 | S. | S. | S. | 126 | *(-) | 13 |
| 29.845 | 91.0 | 73.0 | 81.7 | 64.1 | 17.6 | 71.0 | 70.0 | W. | SW. | NE. | 131 | .24 | 14 |
| 29.934 | 88.3 | 69.2 | 74.1 | 62.0 | 12.1 | 66.8 | 65.4 | NE. | E. | SE. | 133 | *(-) | 15 |
| 29.822 | 88.3 | 74.5 | 78.9 | 67.8 | 11.1 | 72.0 | 70.7 | S. | SW. | S. | 114 | ..... | 16 |
| 29.652 | 92.3 | 75.7 | 88.8 | 73.3 | 15.5 | 73.9 | 73.1 | SW. | NW. | NW. | 139 | .33 | 17 |
| 29.900 | 72.7 | 68.6 | 76.0 | 62.4 | 13.6 | 63.1 | 59.2 | NW. | NW. | NW. | 198 | *(-) | 18 |
| 30.138 | 72.3 | 64.3 | 73.3 | 56.0 | 17.3 | 59.1 | 54.6 | NE. | N. | SE. | 135 | ..... | 19 |
| 30.225 ¹ | 75.0 | 66.5 | 76.0 | 55.7 | 20.3 | 61.7 | 58.3 | SW. | S. | S. | 110 | ..... | 20 |
| 30.227 | 80.7 | 68.1 | 77.2 | 55.0 | 22.2 | 64.3 | 61.8 | SW. | S. | SE. | 111 | ..... | 21 |
| 29.913 | 98.0 | 64.8 | 68.9 | 60.2 | 8.7 | 64.4 | 64.0 | E. | E. | NE. | 194 | 4.16 | 22 |
| 29.777 | 85.7 | 70.5 | 78.7 | 62.0 | 16.7 | 67.5 | 65.7 | W. | NW. | 0 | 164 | ..... | 23 |
| 29.844 | 97.7 | 67.9 | 77.5 | 63.0 | 14.5 | 67.5 | 67.2 | NE. | NE. | NE. | 97 | 1.66 | 24 |
| 29.877 | 85.3 | 71.7 | 81.6 | 67.7 | 13.9 | 68.8 | 66.8 | NE. | S. | NW. | 80 | *(-) | 25 |
| 29.922 | 72.7 | 72.7 | 82.1 | 63.0 | 19.1 | 66.8 | 63.0 | NW. | NW. | NW. | 185 | *(-) | 26 |
| 29.951 | 81.3 | 71.1 | 78.2 | 63.8 | 14.4 | 67.3 | 64.8 | NW. | SW. | W. | 103 | .01 | 27 |
| 30.010 | 73.3 | 69.0 | 77.1 | 64.1 | 13.0 | 63.4 | 59.4 | NE. | N. | SE. | 112 | .04 | 28 |
| 30.031 | 83.3 | 70.9 | 79.8 | 61.0 | 18.8 | 67.5 | 65.2 | S. | SW. | SW. | 96 | ..... | 29 |
| 30.099 | 85.3 | 67.3 | 73.5 | 62.6 | 10.9 | 64.4 | 62.7 | SW. | NE. | NE. | 133 | *(-) | 30 |
| 899.183 | 2,496.1 | 2,096.0 | 2,347.3 | 1,857.2 | 490.1 | 1,993.6 | 1,925.8 | ..... | ..... | ..... | 3701.1 | 6.75 | |
| 29.973 | 83.2 | 69.9 | 78.2 | 61.9 | 16.3 | 66.05 | 64.2 | NE. | S. | {NE. S.} | 123.4 | .225 | |

¹ Dash (-) in rainfall column indicates precipitation inappreciable.
 The surface of the mercury in the cistern of barometer is 106 feet above mean level of the sea.
 Barometer corrected for temperature, elevation above sea, and instrumental error.

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TABLE XI.—Deaths: Total deaths from eighteen principal diseases and suicides during three years ending June 30, 1886.

| Diseases. | White. | | Colored. | | Total | Diseases. | White. | | Colored. | | Total. |
|------------------------------|--------|-----|----------|-----|-------|------------------------------|--------|----|----------|----|--------|
| | M. | F. | M. | F. | | | M. | F. | M. | F. | |
| Consumption | 570 | 544 | 566 | 723 | 2,403 | Rheumatism | 47 | 25 | 17 | 15 | 104 |
| Typhoid fever | 126 | 91 | 51 | 60 | 328 | Aneurisms | 15 | 5 | 12 | 4 | 36 |
| Apoplexy | 127 | 94 | 62 | 57 | 340 | Angina pectoris | 11 | 8 | 3 | 1 | 23 |
| Insanity | 156 | 35 | 40 | 19 | 250 | Gastritis | 22 | 25 | 14 | 12 | 93 |
| Softening of the brain | 24 | 15 | 3 | 5 | 47 | Cirrhosis of the liver | 20 | 12 | 3 | 3 | 38 |
| Paralysis | 58 | 68 | 22 | 38 | 181 | Dropsies | 10 | 17 | 19 | 23 | 69 |
| Cancer | 73 | 157 | 18 | 62 | 310 | Diabetes | 14 | 10 | 2 | 0 | 26 |
| Epilepsy | 9 | 3 | 5 | 5 | 22 | Hernia | 8 | 5 | 8 | 0 | 21 |
| Disease of the heart | 206 | 174 | 112 | 145 | 677 | Suicides | 34 | 4 | 3 | 1 | 42 |
| Bright's disease | 66 | 33 | 25 | 23 | 155 | | | | | | |

TABLE XII.—Showing deaths, arranged according to age, sex, and color, with percentages, for the ten years ending June 30, 1886.

| | White males, ten years ending June 30, 1886. | | | | | | | | | | Total deaths, and percent mean to total deaths. |
|---------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | |
| Total deaths | 1,148 | 1,125 | 1,130 | 1,097 | 1,179 | 1,254 | 1,196 | 1,322 | 1,375 | 1,312 | 12,138 |
| 5 years and over: | | | | | | | | | | | |
| Number of deaths | 725 | 683 | 689 | 711 | 791 | 854 | 820 | 885 | 958 | 949 | 8,065 |
| Percentage to total | 63.15 | 60.71 | 60.97 | 64.81 | 67.10 | 68.10 | 68.53 | 66.94 | 69.67 | 72.33 | 66.44 |
| 20 years and over: | | | | | | | | | | | |
| Number of deaths | 633 | 568 | 562 | 641 | 709 | 751 | 709 | 764 | 841 | 841 | 7,019 |
| Percentage to total | 55.14 | 50.49 | 49.73 | 58.43 | 60.14 | 59.88 | 59.28 | 57.79 | 61.16 | 64.10 | 57.92 |
| 40 years and over: | | | | | | | | | | | |
| Number of deaths | 492 | 380 | 384 | 459 | 509 | 541 | 533 | 572 | 601 | 610 | 5,021 |
| Percentage to total | 42.63 | 33.78 | 33.98 | 41.84 | 43.17 | 43.14 | 44.57 | 43.27 | 43.71 | 46.49 | 41.36 |
| | | | | | | | | | | | |
| | White females, ten years ending June 30, 1886. | | | | | | | | | | Total deaths, and percent mean to total deaths. |
| | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | |
| Total deaths | 1,089 | 1,041 | 1,066 | 988 | 1,026 | 1,089 | 1,074 | 1,254 | 1,235 | 1,130 | 10,952 |
| 5 years and over: | | | | | | | | | | | |
| Number of deaths | 621 | 653 | 647 | 592 | 716 | 731 | 728 | 801 | 802 | 803 | 7,124 |
| Percentage to total | 56.97 | 62.73 | 60.69 | 59.92 | 69.78 | 66.52 | 67.78 | 63.88 | 65.87 | 71.06 | 65.04 |
| 20 years and over: | | | | | | | | | | | |
| Number of deaths | 522 | 541 | 535 | 529 | 611 | 601 | 632 | 687 | 705 | 702 | 6,095 |
| Percentage to total | 50.24 | 51.97 | 50.19 | 53.54 | 59.55 | 57.42 | 58.85 | 54.78 | 57.08 | 62.12 | 55.65 |
| 40 years and over: | | | | | | | | | | | |
| Number of deaths | 539 | 354 | 334 | 351 | 404 | 410 | 439 | 465 | 489 | 476 | 4,043 |
| Percentage to total | 52.63 | 34.01 | 31.33 | 35.53 | 39.38 | 37.81 | 40.88 | 37.08 | 39.59 | 40.53 | 36.91 |

TABLE XII.—Showing deaths, arranged according to age, sex, and color, with percentages, for the ten years ending June 30, 1886—Continued.

| | Colored males, ten years ending June 30, 1886. | | | | | | | | | | Total deaths, and mean percent-ages to total deaths. |
|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | |
| Total deaths | 988 | 1,007 | 1,051 | 1,025 | 921 | 1,062 | 1,004 | 1,081 | 1,210 | 1,077 | 10,426 |
| 5 years and over : | | | | | | | | | | | |
| Number of deaths | 417 | 394 | 430 | 407 | 424 | 500 | 504 | 481 | 587 | 574 | 4,718 |
| Percentage to total deaths | 42.20 | 39.13 | 40.91 | 39.71 | 46.04 | 47.08 | 50.20 | 44.50 | 48.51 | 53.29 | 45.25 |
| 20 years and over : | | | | | | | | | | | |
| Number of deaths | 337 | 311 | 348 | 325 | 347 | 402 | 397 | 381 | 476 | 458 | 3,782 |
| Percentage to total deaths | 34.11 | 30.88 | 33.11 | 31.71 | 37.68 | 37.85 | 39.54 | 35.24 | 39.34 | 42.52 | 36.08 |
| 40 years and over : | | | | | | | | | | | |
| Number of deaths | 206 | 197 | 209 | 186 | 210 | 245 | 253 | 242 | 300 | 297 | 2,345 |
| Percentage to total deaths | 20.85 | 19.56 | 19.89 | 18.15 | 22.80 | 23.07 | 25.20 | 22.39 | 24.79 | 27.57 | 22.49 |

| | Colored females, ten years ending June 30, 1886. | | | | | | | | | | Total deaths, and mean percent-ages to total deaths. | Total colored. |
|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------------|
| | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | | |
| Total deaths | 1,033 | 1,058 | 1,062 | 1,096 | 1,010 | 1,156 | 1,012 | 1,157 | 1,178 | 1,155 | 10,917 | 21,343 |
| 5 years and over : | | | | | | | | | | | | |
| Number of deaths | 518 | 504 | 523 | 537 | 525 | 613 | 540 | 607 | 664 | 652 | 5,683 | 10,410 |
| Percentage to total deaths | 50.15 | 47.64 | 49.25 | 49.00 | 51.98 | 53.03 | 53.36 | 52.46 | 56.37 | 56.45 | 51.78 | 48.77 |
| 20 years and over : | | | | | | | | | | | | |
| Number of deaths | 396 | 374 | 424 | 434 | 448 | 490 | 422 | 466 | 510 | 516 | 4,480 | 8,262 |
| Percentage to total deaths | 38.33 | 35.35 | 39.92 | 39.60 | 44.36 | 42.39 | 41.70 | 40.28 | 43.29 | 44.67 | 41.03 | 38.71 |
| 40 years and over : | | | | | | | | | | | | |
| Number of deaths | 221 | 208 | 230 | 237 | 231 | 282 | 243 | 261 | 319 | 297 | 2,529 | 4,874 |
| Percentage to total deaths | 21.39 | 19.66 | 21.66 | 21.62 | 22.87 | 24.39 | 24.01 | 22.56 | 27.80 | 25.71 | 23.07 | 22.87 |

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TABLE XIII.—Deaths under one month of age from convulsions and trismus nascentium, by age, months, and sanitary divisions, for the year ending June 30, 1886.

BY AGE.

| | Convulsions. | | | | | Trismus nascentium. | | | | |
|-------------------------------------|--------------|----|----------|----|--------|---------------------|----|----------|----|--------|
| | White. | | Colored. | | Total. | White. | | Colored. | | Total. |
| | M. | F. | M. | F. | | M. | F. | M. | F. | |
| Under one day..... | 1 | 1 | | 1 | 3 | | | | | |
| One day to two days..... | 1 | | 1 | | 2 | | | 1 | | 1 |
| Two days to three days..... | 1 | | | | 1 | 2 | | | | 2 |
| Three days to four days..... | | 1 | 2 | | 3 | | | 1 | | 1 |
| Four days to five days..... | 1 | | | | 1 | | | 2 | 4 | 6 |
| Five days to six days..... | | | 1 | 1 | 2 | | | 2 | | 2 |
| Six days to seven days..... | 3 | 1 | 1 | | 5 | | 1 | 3 | 7 | 11 |
| Seven days to eight days..... | 1 | | 5 | | 6 | 1 | 2 | 1 | 6 | 10 |
| Eight days to nine days..... | | | 2 | 2 | 4 | | | 3 | 3 | 6 |
| Nine days to ten days..... | | | 1 | | 1 | | | 3 | 2 | 5 |
| Ten days to eleven days..... | 1 | | 1 | | 2 | 1 | | 3 | 4 | 4 |
| Eleven days to twelve days..... | | | | 1 | 1 | | | 2 | | 2 |
| Twelve days to thirteen days..... | | | | 1 | 1 | | | | | |
| Thirteen days to fourteen days..... | | | | 1 | 1 | | | | | |
| Two weeks to three weeks..... | 1 | 1 | | | 2 | | 1 | 1 | 1 | 3 |
| Three weeks to four weeks..... | 3 | 1 | | | 4 | | | | | |
| Total..... | 13 | 5 | 14 | 7 | 39 | 4 | 4 | 17 | 28 | 53 |

BY MONTHS.

| | | | | | | | | | | |
|----------------|----|---|----|---|----|---|---|----|----|----|
| July..... | | 1 | 1 | | 2 | 1 | 1 | | 1 | 3 |
| August..... | 1 | | 2 | 1 | 4 | 1 | | 3 | 4 | 8 |
| September..... | 2 | | | 1 | 3 | | | 1 | 3 | 4 |
| October..... | | 1 | 2 | 1 | 4 | | | 5 | | 5 |
| November..... | 1 | 1 | 1 | 1 | 4 | | 1 | 1 | 3 | 5 |
| December..... | 2 | 1 | 3 | | 6 | | | 3 | 1 | 4 |
| January..... | 2 | 1 | | | 3 | 1 | | 1 | 2 | 4 |
| February..... | | | | 1 | 1 | | | 2 | | 3 |
| March..... | 1 | | 1 | | 2 | | | 3 | 3 | 6 |
| April..... | 1 | | 2 | | 3 | | | 1 | 3 | 4 |
| May..... | | | 2 | 1 | 3 | | | | 1 | 1 |
| June..... | 3 | | 1 | | 4 | | 2 | 2 | 2 | 6 |
| Total..... | 13 | 5 | 14 | 7 | 39 | 4 | 4 | 17 | 28 | 53 |

BY SANITARY DIVISION.

| | | | | | | | | | | |
|---------------------------------|----|---|----|---|----|---|---|----|----|----|
| First sanitary division..... | 3 | | | | 3 | 1 | | | 1 | 2 |
| Second sanitary division..... | 1 | | 1 | | 2 | 1 | | | 1 | 2 |
| Third sanitary division..... | 1 | | 1 | | 2 | | | 1 | 3 | 4 |
| Fourth sanitary division..... | | | | 1 | 1 | | | 6 | 3 | 7 |
| Fifth sanitary division..... | 1 | | 4 | 1 | 6 | | | 3 | 6 | 9 |
| Sixth sanitary division..... | 2 | 1 | | | 3 | | | 2 | 1 | 3 |
| Seventh sanitary division..... | 2 | 2 | 3 | 3 | 10 | 2 | 3 | 3 | 5 | 13 |
| Eighth sanitary division..... | 2 | | 3 | | 5 | | | 1 | 1 | 2 |
| Ninth sanitary division..... | | | 1 | | 1 | | | | | 1 |
| Tenth sanitary division..... | 1 | 1 | 1 | 1 | 4 | | 1 | 1 | 2 | 4 |
| Eleventh sanitary division..... | | | 1 | | 1 | | | 1 | 2 | 3 |
| Twelfth sanitary division..... | | | | 1 | 1 | | | | | 1 |
| Residuals..... | | | | | | | | 2 | 1 | 3 |
| Total..... | 13 | 4 | 15 | 7 | 39 | 4 | 4 | 17 | 28 | 53 |

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TABLE XIV.—Deaths from cancers, by color, sex, and nativities, from September 1, 1874, to June 30, 1886.

| Cancer of— | Color. | Sex. | Nativities. | | | | | | | | |
|--------------------------------|------------|------------|-----------------------|-------------------------------|----------|----------|----------|---------|--------|-------------------------------|--------|
| | | | District of Columbia. | Other parts of United States. | Ireland. | England. | Germany. | France. | Italy. | Other countries, and unknown. | Total. |
| Breast | White .. | Female .. | 15 | 54 | 15 | 4 | 2 | | | 2 | 92 |
| | Colored .. | Male | 1 | 2 | | | | | | | 3 |
| | | Female .. | 6 | 34 | | | | | | | 40 |
| Uterus | White .. | Female .. | 30 | 112 | 18 | 6 | 7 | 1 | 1 | 3 | 178 |
| | Colored .. | Female .. | 16 | 70 | | | | | | | 86 |
| Ovary | White .. | Female .. | 5 | 7 | 2 | | 2 | | | | 16 |
| | Colored .. | Female .. | 1 | 4 | | | | | | | 5 |
| Stomach | White .. | Male | 8 | 29 | 13 | 4 | 16 | | 1 | 3 | 74 |
| | Colored .. | Female .. | 11 | 21 | 8 | 5 | 7 | | | 2 | 54 |
| | | Male | 2 | 20 | | | | | | | 22 |
| | | Female .. | 7 | 28 | | | | | | | 35 |
| Liver | White .. | Male | 2 | 9 | 1 | | 8 | | | | 23 |
| | Colored .. | Female .. | 3 | 10 | | 3 | 4 | | | 1 | 21 |
| | | Male | | 5 | | | | | | | 5 |
| | | Female .. | | 3 | | | | | | | 3 |
| Face, head, neck, and mouth .. | White .. | Male | 11 | 30 | 11 | 3 | 1 | 1 | | 2 | 59 |
| | Colored .. | Female .. | 8 | 16 | 5 | | 3 | | | 2 | 34 |
| | | Male | 1 | 9 | | | | | | | 10 |
| | | Female .. | | 7 | | | | | | | 7 |
| All other organs | White .. | Male | 7 | 30 | 3 | 4 | 9 | 1 | | 2 | 56 |
| | Colored .. | Female .. | 19 | 44 | 5 | 2 | 7 | 1 | | 2 | 80 |
| | | Male | 2 | 13 | | | | | | | 15 |
| | | Female .. | 3 | 31 | | | | | | | 34 |
| Total | White .. | Male | 28 | 98 | 28 | 11 | 34 | 2 | 1 | 10 | 212 |
| | | Female .. | 91 | 264 | 53 | 20 | 32 | 2 | 1 | 12 | 475 |
| | Colored .. | Male | 6 | 49 | | | | | | | 55 |
| | | Female .. | 33 | 177 | | | | | | | 210 |
| Total by sex | | Male | 34 | 147 | 28 | 11 | 34 | 2 | 1 | 10 | 267 |
| | | Female .. | 124 | 441 | 53 | 20 | 32 | 2 | 1 | 12 | 685 |
| Total by color | | White .. | 119 | 362 | 81 | 31 | 66 | 4 | 2 | 22 | 687 |
| | | Colored .. | 39 | 226 | | | | | | | 265 |
| Grand total | | | 158 | 588 | 81 | 31 | 66 | 4 | 2 | 22 | 952 |

TABLE XV.—Deaths from cancers of white females from September 1, 1874, to June 30, 1886.

| Cancer of— | Married. | | Widows. | | Single. | | Total deaths from cancers. |
|--------------------------|----------------------|---|----------------------|--|----------------------|--|----------------------------|
| | Deaths from cancers. | Percentage to total deaths from cancers of married. | Deaths from cancers. | Percentage to total deaths from cancers of widows. | Deaths from cancers. | Percentage to total deaths from cancers of single. | |
| Breast | 39 | 15.79 | 35 | 22.29 | 18 | 25.71 | 92 |
| Uterus | 116 | 46.96 | 49 | 31.21 | 12 | 17.14 | *178 |
| Ovary | 11 | 4.45 | 4 | 2.55 | 1 | 1.43 | 16 |
| Stomach | 20 | 8.10 | 24 | 15.29 | 10 | 14.28 | 54 |
| Liver | 10 | 4.05 | 8 | 5.10 | 3 | 4.29 | 21 |
| Head, neck, and mouth .. | 13 | 5.26 | 15 | 9.55 | 6 | 8.58 | 34 |
| All others | 38 | 15.39 | 22 | 14.01 | 20 | 28.57 | 80 |
| Total | 247 | 100.00 | 157 | 100.00 | 70 | 100.00 | 475 |

* One cancer of the uterus, conjugal relation unknown.

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TABLE XIII.—Deaths under one month of age from convulsions and trismus nascentium, by age, months, and sanitary divisions, for the year ending June 30, 1886.

BY AGE.

| | Convulsions. | | | | | Trismus nascentium. | | | | |
|-------------------------------------|--------------|----|----------|----|--------|---------------------|----|----------|----|--------|
| | White. | | Colored. | | Total. | White. | | Colored. | | Total. |
| | M. | F. | M. | F. | | M. | F. | M. | F. | |
| Under one day..... | 1 | 1 | | 1 | 3 | | | | | |
| One day to two days..... | 1 | | 1 | | 2 | | | 1 | | 1 |
| Two days to three days..... | 1 | | | | 1 | 2 | | | | 2 |
| Three days to four days..... | | 1 | 2 | | 3 | | | 1 | | 1 |
| Four days to five days..... | 1 | | | | 1 | | | 2 | 4 | 6 |
| Five days to six days..... | | | 1 | 1 | 2 | | | 2 | | 2 |
| Six days to seven days..... | 3 | 1 | 1 | | 5 | | 1 | 3 | 7 | 11 |
| Seven days to eight days..... | 1 | | 5 | | 6 | 1 | 2 | 1 | 6 | 10 |
| Eight days to nine days..... | | | 2 | 2 | 4 | | | 3 | 3 | 6 |
| Nine days to ten days..... | | | 1 | | 1 | | | 3 | 2 | 5 |
| Ten days to eleven days..... | 1 | | 1 | | 2 | 1 | | 3 | 4 | 4 |
| Eleven days to twelve days..... | | | | 1 | 1 | | | 2 | | 2 |
| Twelve days to thirteen days..... | | | | 1 | 1 | | | | | |
| Thirteen days to fourteen days..... | | | | 1 | 1 | | | | | |
| Two weeks to three weeks..... | 1 | 1 | | | 2 | | 1 | 1 | 1 | 3 |
| Three weeks to four weeks..... | 3 | 1 | | | 4 | | | | | |
| Total..... | 13 | 5 | 14 | 7 | 39 | 4 | 4 | 17 | 28 | 53 |

BY MONTHS.

| | | | | | | | | | | |
|----------------|----|---|----|---|----|---|---|----|----|----|
| July..... | | 1 | 1 | | 2 | 1 | 1 | | 1 | 3 |
| August..... | 1 | | 2 | 1 | 4 | | | 3 | 4 | 8 |
| September..... | 2 | | | 1 | 3 | | | 1 | 3 | 4 |
| October..... | | 1 | 2 | 1 | 4 | | | | 5 | 5 |
| November..... | 1 | 1 | 1 | 1 | 4 | | 1 | 1 | 3 | 5 |
| December..... | 2 | 1 | 3 | | 6 | | | 3 | 1 | 4 |
| January..... | 2 | 1 | | | 3 | 1 | | 1 | 2 | 4 |
| February..... | | | | 1 | 1 | 1 | | 2 | | 3 |
| March..... | 1 | | 1 | | 2 | | | 3 | 3 | 6 |
| April..... | 1 | | 2 | | 3 | | | 1 | 3 | 4 |
| May..... | | | 2 | 1 | 3 | | | | 1 | 1 |
| June..... | 3 | | 1 | | 4 | | 2 | 2 | 2 | 6 |
| Total..... | 13 | 5 | 15 | 6 | 39 | 4 | 4 | 17 | 28 | 53 |

BY SANITARY DIVISION.

| | | | | | | | | | | |
|---------------------------------|----|---|----|---|----|---|---|----|----|----|
| First sanitary division..... | 3 | | | | 3 | 1 | | | 1 | 2 |
| Second sanitary division..... | 1 | | 1 | | 2 | 1 | | | 1 | 2 |
| Third sanitary division..... | 1 | | 1 | | 2 | | | 1 | 3 | 4 |
| Fourth sanitary division..... | | | | 1 | 1 | | | 6 | 3 | 9 |
| Fifth sanitary division..... | 1 | | 4 | 1 | 6 | | | | 6 | 6 |
| Sixth sanitary division..... | 2 | 1 | | | 3 | | | 2 | 1 | 3 |
| Seventh sanitary division..... | 2 | 2 | 3 | 3 | 10 | 2 | 3 | 3 | 5 | 13 |
| Eighth sanitary division..... | 2 | | 3 | | 5 | | | 1 | 2 | 3 |
| Ninth sanitary division..... | | | 1 | | 1 | | | | 1 | 1 |
| Tenth sanitary division..... | 1 | 1 | 1 | 1 | 4 | | 1 | 1 | 2 | 4 |
| Eleventh sanitary division..... | | | 1 | | 1 | | | 1 | 2 | 3 |
| Twelfth sanitary division..... | | | | 1 | 1 | | | | | |
| Hospitals..... | | | | | | | | 2 | 1 | 3 |
| Total..... | 13 | 4 | 15 | 7 | 39 | 4 | 4 | 17 | 28 | 53 |

TABLE XIV.—Deaths from cancers, by color, sex, and nativities, from September 1, 1874, to June 30, 1886.

| Cancer of— | Color. | Sex. | Nativities. | | | | | | | |
|-----------------------------------|------------|-----------|-----------------------|-------------------------------|----------|----------|----------|---------|--------|-------------------------------|
| | | | District of Columbia. | Other parts of United States. | Ireland. | England. | Germany. | France. | Italy. | Other countries, and unknown. |
| Breast | White .. | Female .. | 15 | 54 | 15 | 4 | 2 | ... | ... | 2 |
| | Colored .. | Male .. | 1 | 2 | ... | ... | ... | ... | ... | 3 |
| Uterus | White .. | Female .. | 6 | 34 | ... | ... | ... | ... | ... | 40 |
| | Colored .. | Female .. | 30 | 112 | 18 | 6 | 7 | 1 | 1 | 178 |
| Ovary | White .. | Female .. | 16 | 70 | ... | ... | ... | ... | ... | 86 |
| | Colored .. | Female .. | 5 | 7 | 2 | ... | 2 | ... | ... | 16 |
| Stomach | White .. | Female .. | 1 | 4 | ... | ... | ... | ... | ... | 5 |
| | Colored .. | Female .. | 8 | 29 | 13 | 4 | 16 | ... | 1 | 74 |
| Liver | White .. | Male .. | 11 | 21 | 8 | 5 | 7 | ... | ... | 54 |
| | Colored .. | Male .. | 2 | 20 | ... | ... | ... | ... | ... | 22 |
| Face, head, neck, and mouth | White .. | Female .. | 7 | 28 | ... | ... | ... | ... | ... | 35 |
| | Colored .. | Female .. | 2 | 9 | 1 | ... | 8 | ... | ... | 23 |
| All other organs | White .. | Male .. | 3 | 10 | ... | 3 | 4 | ... | ... | 21 |
| | Colored .. | Male .. | ... | 5 | ... | ... | ... | ... | ... | 5 |
| Total | White .. | Female .. | 11 | 30 | 11 | 3 | 1 | 1 | ... | 59 |
| | Colored .. | Female .. | 8 | 16 | 5 | ... | 3 | ... | ... | 34 |
| Total by sex | White .. | Male .. | 1 | 9 | ... | ... | ... | ... | ... | 10 |
| | Colored .. | Male .. | 7 | 30 | 3 | 4 | 9 | ... | ... | 56 |
| Total by color | White .. | Female .. | 19 | 44 | 5 | 2 | 7 | 1 | ... | 80 |
| | Colored .. | Female .. | 2 | 13 | ... | ... | ... | ... | ... | 15 |
| Grand total | White .. | Female .. | 3 | 31 | ... | ... | ... | ... | ... | 34 |
| Total | White .. | Male .. | 28 | 98 | 28 | 11 | 34 | 2 | 1 | 212 |
| | Colored .. | Female .. | 91 | 264 | 53 | 20 | 32 | 2 | 1 | 475 |
| Total by sex | White .. | Male .. | 6 | 49 | ... | ... | ... | ... | ... | 55 |
| | Colored .. | Female .. | 33 | 177 | ... | ... | ... | ... | ... | 210 |
| Total by sex | White .. | Male .. | 34 | 147 | 28 | 11 | 34 | 2 | 1 | 267 |
| | Colored .. | Female .. | 124 | 441 | 53 | 20 | 32 | 2 | 1 | 685 |
| Total by color | White .. | Male .. | 119 | 362 | 81 | 31 | 66 | 4 | 2 | 687 |
| | Colored .. | Female .. | 39 | 226 | ... | ... | ... | ... | ... | 265 |
| Grand total | White .. | Female .. | 158 | 588 | 81 | 31 | 66 | 4 | 2 | 952 |

TABLE XV.—Deaths from cancers of white females from September 1, 1874, to June 30, 1886.

| Cancer of— | Married. | | Widows. | | Single. | | Total deaths from cancers. |
|-----------------------------|----------------------|---|----------------------|--|----------------------|--|----------------------------|
| | Deaths from cancers. | Percentage to total deaths from cancers of married. | Deaths from cancers. | Percentage to total deaths from cancers of widows. | Deaths from cancers. | Percentage to total deaths from cancers of single. | |
| Breast | 39 | 15.79 | 35 | 22.29 | 18 | 25.71 | 92 |
| Uterus | 116 | 46.96 | 49 | 31.21 | 13 | 17.14 | *178 |
| Ovary | 11 | 4.45 | 4 | 2.55 | 1 | 1.43 | 16 |
| Stomach | 20 | 8.10 | 24 | 15.29 | 10 | 14.28 | 54 |
| Liver | 10 | 4.05 | 8 | 5.10 | 3 | 4.29 | 21 |
| Head, neck, and mouth | 13 | 5.26 | 15 | 9.55 | 6 | 8.58 | 34 |
| All others | 38 | 15.39 | 22 | 14.01 | 20 | 28.57 | 80 |
| Total | 247 | 100.00 | 157 | 100.00 | 70 | 100.00 | 475 |

* One cancer of the uterus, conjugal relation unknown.

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TABLE XVI.—Deaths from cancers of colored females from September 1, 1874, to June 30, 1886.

| Cancer of— | Married. | | Widows. | | Single. | | Total deaths from cancers. |
|-----------------------------|----------------------|---|----------------------|--|----------------------|--|----------------------------|
| | Deaths from cancers. | Percentage to total deaths from cancers of married. | Deaths from cancers. | Percentage to total deaths from cancers of widows. | Deaths from cancers. | Percentage to total deaths from cancers of single. | |
| Breast | 18 | 20.45 | 21 | 21.65 | 1 | .40 | 40 |
| Uterus | 39 | 42.32 | 39 | 40.21 | 8 | .32 | 86 |
| Ovary | 4 | 4.55 | 1 | 1.03 | — | — | 5 |
| Stomach | 10 | 11.36 | 20 | 20.62 | 5 | .20 | 35 |
| Liver | 1 | 1.14 | 1 | 1.03 | 1 | .40 | 3 |
| Head, neck, and mouth | 2 | 2.27 | 3 | 3.09 | 2 | .80 | 7 |
| All others | 14 | 15.91 | 12 | 12.37 | 8 | .32 | 34 |
| Total | 88 | 100.00 | 97 | 100.00 | 25 | 100.00 | 210 |

TABLE XVII.—Deaths from cancers, by color, sex, age, &c., from September 1, 1874, to June 30, 1886.

| Age. | Color. | Sex. | Cancer of breast. | Cancer of uterus. | Cancer of ovary. | Cancer of stomach. | Cancer of liver. | Cancer of head, neck, and mouth. | All others. | Total. |
|--|---------------|--------------|-------------------|-------------------|------------------|--------------------|------------------|----------------------------------|-------------|--------|
| Under 20 years | White | Male | — | — | — | — | — | 2 | 4 | 6 |
| | | Female | — | 1 | — | — | — | 4 | 6 | 11 |
| 20 to 30 years | Colored | Male | 1 | — | — | — | — | 1 | 1 | 3 |
| | | Female | — | — | — | 1 | — | 1 | 1 | 3 |
| 30 to 40 years | White | Male | — | — | — | 1 | — | 1 | 1 | 4 |
| | | Female | — | 4 | 2 | 3 | — | 1 | 5 | 15 |
| 40 to 50 years | Colored | Male | 2 | 5 | 1 | 2 | 1 | 1 | 3 | 7 |
| | | Female | 7 | 30 | 2 | 1 | 2 | 1 | 2 | 13 |
| 50 to 60 years | White | Male | 1 | — | — | 2 | — | 2 | 4 | 10 |
| | | Female | 3 | 24 | 2 | 3 | — | 1 | 8 | 51 |
| 60 to 70 years | Colored | Male | — | — | — | 3 | — | — | 1 | 5 |
| | | Female | 22 | 63 | 3 | 9 | 9 | 4 | 10 | 37 |
| 70 to 80 years | White | Male | 7 | 16 | — | 9 | — | 4 | 1 | 24 |
| | | Female | — | — | — | 4 | — | — | — | 4 |
| 80 years and over | Colored | Male | — | — | — | 27 | 10 | 14 | 11 | 33 |
| | | Female | 28 | 42 | 4 | 11 | 1 | 6 | 20 | 64 |
| Totals | White | Male | 11 | 21 | 2 | 3 | 3 | 2 | 3 | 112 |
| | | Female | 11 | 21 | 2 | 6 | 4 | 2 | 5 | 47 |
| Grand total | Colored | Male | 21 | 28 | 4 | 18 | 4 | 11 | 16 | 49 |
| | | Female | 21 | 28 | 4 | 18 | 5 | 4 | 19 | 99 |
| Percentage to total deaths from cancer | White | Male | — | — | — | 4 | — | 1 | 1 | 6 |
| | | Female | 10 | 8 | — | 9 | 1 | 1 | 5 | 34 |
| Grand total | Colored | Male | 14 | 9 | 1 | 13 | 2 | 10 | 7 | 32 |
| | | Female | 14 | 9 | 1 | 12 | 4 | 5 | 8 | 53 |
| Grand total | White | Male | — | — | — | 1 | 1 | — | 3 | 5 |
| | | Female | 4 | 10 | — | 7 | 1 | 1 | 4 | 27 |
| Grand total | Colored | Male | — | — | — | 1 | — | 7 | — | 8 |
| | | Female | 1 | 1 | — | — | — | 9 | — | 10 |
| Grand total | White | Male | 3 | 2 | — | — | — | — | 1 | 2 |
| | | Female | 3 | 2 | — | 3 | 1 | 1 | 1 | 11 |
| Grand total | Colored | Male | 92 | 178 | 16 | 74 | 23 | 59 | 56 | 212 |
| | | Female | 3 | — | — | 54 | 21 | 34 | 80 | 475 |
| Grand total | White | Male | 40 | 86 | 5 | 35 | 5 | 10 | 15 | 85 |
| | | Female | 40 | 86 | 5 | 35 | 3 | 7 | 34 | 210 |
| Grand total | | | 185 | 264 | 21 | 185 | 52 | 110 | 185 | 932 |
| Percentage to total deaths from cancer | | | 14.18 | 27.73 | 2.21 | 19.33 | 5.57 | 11.66 | 19.32 | 100.00 |

TABLE XVIII.—*Number of deaths from cancers, by color, sex, and age; total number of deaths from all causes; and number of deaths from all causes to 1 from cancers from September 1, 1874, to June 30, 1886.*

| Cause of death. | White. | | | Colored. | | | Grand total. |
|--|--------|---------|--------|----------|---------|--------|--------------|
| | Male. | Female. | Total. | Male. | Female. | Total. | |
| Under 20 years: | | | | | | | |
| Deaths from cancers | 6 | 11 | 17 | 3 | 3 | 6 | 23 |
| Deaths from all causes | 6,041 | 5,761 | 11,802 | 7,861 | 7,659 | 15,520 | |
| Number of deaths from all causes to 1 from cancers.. | 1,007 | 524 | 1,531 | 2,621 | 2,553 | 5,174 | |
| 20 to 30 years: | | | | | | | |
| Deaths from cancers | 4 | 15 | 19 | 7 | 13 | 20 | 39 |
| Deaths from all causes | 1,062 | 1,200 | 2,262 | 888 | 1,251 | 2,139 | |
| Number of deaths from all causes to 1 from cancers.. | 265 | 80 | 345 | 127 | 96 | 223 | |
| 30 to 40 years: | | | | | | | |
| Deaths from cancers | 10 | 51 | 61 | 5 | 37 | 42 | 103 |
| Deaths from all causes | 1,319 | 1,197 | 2,516 | 821 | 993 | 1,814 | |
| Number of deaths from all causes to 1 from cancers.. | 131 | 23 | 154 | 164 | 27 | 191 | |
| 40 to 50 years: | | | | | | | |
| Deaths from cancers | 39 | 124 | 163 | 14 | 38 | 52 | 215 |
| Deaths from all causes | 1,595 | 1,019 | 2,614 | 759 | 677 | 1,436 | |
| Number of deaths from all causes to 1 from cancers.. | 41 | 8 | 49 | 54 | 18 | 72 | |
| 50 to 60 years: | | | | | | | |
| Deaths from cancers | 64 | 112 | 176 | 13 | 47 | 60 | 236 |
| Deaths from all causes | 1,408 | 935 | 2,343 | 612 | 524 | 1,136 | |
| Number of deaths from all causes to 1 from cancers.. | 22 | 8 | 30 | 47 | 11 | 58 | |
| 60 to 70 years: | | | | | | | |
| Deaths from cancers | 49 | 99 | 148 | 6 | 34 | 40 | 188 |
| Deaths from all causes | 1,330 | 1,027 | 2,357 | 521 | 541 | 1,062 | |
| Number of deaths from all causes to 1 from cancers.. | 27 | 10 | 37 | 87 | 16 | 103 | |
| 70 to 80 years: | | | | | | | |
| Deaths from cancers | 32 | 53 | 85 | 5 | 27 | 32 | 117 |
| Deaths from all causes | 1,088 | 1,019 | 2,107 | 454 | 557 | 1,011 | |
| Number of deaths from all causes to 1 from cancers.. | 34 | 19 | 53 | 91 | 21 | 112 | |
| 80 years and over: | | | | | | | |
| Deaths from cancers | 8 | 10 | 18 | 2 | 11 | 13 | 31 |
| Deaths from all causes | 388 | 611 | 1,000 | 338 | 616 | 954 | |
| Number of deaths from all causes to 1 from cancers.. | 48 | 61 | 109 | 169 | 56 | 225 | |

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TABLE XIX.—Still-births and cause, and legitimacy, period of utero-gestation, and by whom reported, for the year ending June 30, 1886.

| | White. | | Colored. | | Total. | | White. | | Colored. | | Total. |
|--|--------|---------|----------|---------|--------|--|-----------|-----------|------------|------------|------------|
| | Male. | Female. | Male. | Female. | | | Male. | Female. | Male. | Female. | |
| Legitimacy: | | | | | | Causes—continued. | | | | | |
| Legitimate | 88 | 61 | 66 | 72 | 287 | Fall of mother | 4 | 2 | 12 | 7 | 25 |
| Illegitimate | 10 | 5 | 64 | 40 | 119 | Fibroids of the uterus | | | | 1 | 1 |
| Total | 98 | 66 | 130 | 112 | 406 | Fright of mother | 5 | 1 | | | 6 |
| Period of utero-gestation: | | | | | | Gastralgia of mother | | 1 | | | 1 |
| Fourth month and under | | 2 | 7 | 2 | 11 | Head-pressure during labor | | | | 1 | 1 |
| Fifth month | 3 | | 10 | 10 | 23 | Hemorrhage of mother | 1 | 1 | | | 2 |
| Sixth month | 10 | 7 | 20 | 15 | 52 | Hemicephalus | 1 | | | | 1 |
| Seventh month | 9 | 16 | 12 | 16 | 53 | Hurt to mother | 2 | | 1 | | 3 |
| Eighth month | 20 | 7 | 31 | 22 | 80 | Hydrocephalus | 1 | | | | 1 |
| Ninth month | 49 | 31 | 46 | 42 | 168 | Hydrops amnii | 1 | 1 | 1 | 2 | 5 |
| Tenth month | | | 1 | | 1 | Instrumental delivery | 1 | 2 | | | 3 |
| Unknown and not given | 7 | 3 | 3 | 5 | 18 | Injury in utero | 1 | | | | 1 |
| Total | 98 | 66 | 130 | 112 | 406 | Ill-health of mother | 1 | | 6 | 7 | 14 |
| By whom reported: | | | | | | Lack of development of fetus | 1 | | | | 1 |
| Physicians | 78 | 49 | 56 | 45 | 228 | Malarial fever in mother | 1 | 1 | | | 2 |
| Midwives | 8 | 3 | 10 | 11 | 32 | Maternal disease, injury, and overwork | 1 | 3 | 18 | 8 | 30 |
| Coroner | 6 | 4 | 29 | 17 | 58 | Nervous shock to mother | 1 | | | | 2 |
| Medical sanitary inspector | 4 | 10 | 35 | 39 | 88 | Preterm labor | 1 | | | | 1 |
| Total | 98 | 66 | 130 | 112 | 406 | Predisposition to abortion | | | 1 | 1 | 2 |
| Causes: | | | | | | Presentation: | | | | | |
| Anencephalia | 1 | | | | 1 | Arm | 2 | | | | 2 |
| Asphyxia | 1 | 4 | 1 | | 6 | Breech | 2 | 2 | 1 | 2 | 7 |
| Chorea in mother | 1 | | | | 1 | Face | | 1 | | | 1 |
| Coiled funis | | | 1 | 1 | 2 | Foot | 1 | 1 | | 2 | 4 |
| Compression of cord | 3 | | 3 | | 6 | Mal | 1 | | 2 | 1 | 4 |
| Constriction of cord | 1 | | | | 1 | Shoulder | 1 | 1 | | | 2 |
| Convulsions, puerperal | | 2 | 1 | 1 | 4 | Premature birth | 8 | 2 | 18 | 13 | 41 |
| Contracted pelvis of mother | 1 | | 1 | | 2 | Prolapsus funis | 2 | 1 | 4 | 3 | 10 |
| Craniotomy | 1 | | | | 1 | Protracted labor | 8 | 2 | 5 | 3 | 18 |
| Decomposed fetus | | | | 1 | 1 | Placenta previa | 1 | 3 | 2 | | 6 |
| Disintegration of placenta | | | 1 | 1 | 2 | Sarcoma hepatis | 1 | | | | 1 |
| Died in utero | | 1 | | | 1 | Syphilis | | | 1 | 2 | 3 |
| Dysentery of mother | 1 | | | | 1 | Tight-lacing of mother | 1 | | | | 1 |
| Dystocia, from ten months' gestation | | | 1 | | 1 | Twin birth | 1 | 1 | | 1 | 3 |
| | | | | | | Typhoid fever in mother | 1 | | | | 1 |
| | | | | | | Uremic poisoning | | | | | 1 |
| | | | | | | Unknown and not given | 35 | 32 | 50 | 50 | 167 |
| | | | | | | Total | 98 | 66 | 130 | 112 | 406 |

TABLE XX.—BIRTHS.—*Statement by months and quarters for the year ending June 30, 1886.*

| Months and quarters. | Total. | White. | | Colored. | | Twins. | | Trip-lets. | | Bas-tards. | | Attended by physi-cians. | | Attended by mid-wives and others. | |
|--------------------------------|--------|--------|---------|----------|---------|--------|----------|------------|----------|------------|----------|--------------------------|----------|-----------------------------------|----------|
| | | Male. | Female. | Male. | Female. | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. |
| 1885. | | | | | | | | | | | | | | | |
| July | 308 | 87 | 91 | 65 | 65 | 6 | 2 | | | 9 | 29 | 93 | 25 | 85 | 105 |
| August | 326 | 87 | 108 | 65 | 66 | 14 | 10 | | | 3 | 23 | 99 | 24 | 96 | 107 |
| September | 307 | 91 | 71 | 67 | 78 | 2 | 2 | | | 4 | 24 | 96 | 27 | 66 | 118 |
| Total, first quarter. | 941 | 265 | 270 | 197 | 209 | 22 | 14 | | | 16 | 76 | 288 | 76 | 247 | 330 |
| October | 290 | 95 | 79 | 63 | 53 | 6 | 4 | | | 9 | 27 | 101 | 32 | 73 | 84 |
| November | 293 | 84 | 79 | 72 | 58 | 4 | 6 | 3 | | 7 | 23 | 82 | 22 | 81 | 108 |
| December | 261 | 80 | 60 | 58 | 63 | 6 | | | | 3 | 29 | 88 | 27 | 52 | 94 |
| Total, second quarter | 844 | 259 | 218 | 193 | 174 | 16 | 10 | 3 | | 19 | 79 | 271 | 81 | 206 | 286 |
| 1886. | | | | | | | | | | | | | | | |
| January | 302 | 76 | 86 | 71 | 69 | 6 | 3 | 3 | | 12 | 44 | 91 | 35 | 71 | 105 |
| February | 312 | 96 | 91 | 61 | 64 | 6 | | | | 2 | 29 | 115 | 34 | 72 | 91 |
| March | 333 | 86 | 101 | 79 | 67 | 4 | 2 | | | 4 | 41 | 110 | 34 | 77 | 112 |
| Total, third quarter. | 947 | 258 | 278 | 211 | 200 | 16 | 5 | 3 | | 18 | 114 | 316 | 103 | 220 | 308 |
| April | 245 | 76 | 56 | 62 | 51 | 1 | | | | 1 | 25 | 64 | 16 | 68 | 97 |
| May | 304 | 87 | 89 | 69 | 59 | 2 | 5 | | | 9 | 24 | 91 | 29 | 85 | 100 |
| June | 235 | 64 | 61 | 47 | 63 | 6 | 10 | | | 2 | 33 | 60 | 34 | 65 | 76 |
| Total, fourth quarter | 784 | 227 | 206 | 178 | 173 | 9 | 15 | | | 12 | 82 | 215 | 78 | 218 | 273 |
| Total by sex and color. | 3,516 | 1,009 | 972 | 779 | 756 | 63 | 44 | 6 | | 65 | 351 | 1,090 | 338 | 891 | 1,197 |
| Total by color | | 1,981 | | 1,535 | | 107 | | | | 416 | | 1,428 | | 2,088 | |
| Grand total for the year | 3,516 | | | | | | | | | | | 3,516 | | | |

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TABLE XXI.—BIRTHS.—Number of births (reported) in different hospitals during the year ending June 30, 1886.

| Months. | Color. | Sex. | Columbia Hospi- tal. | Freedmen's Hos- pital. | Washington Asy- lum. | Saint Ann's In- fant Asylum. | Garfield Memorial Hospital. | Children's Hospi- tal. | Government In- sane Asylum. | National Homeo- pathic Hospital. | Total. |
|-----------|---------|--------|-------------------------|---------------------------|-------------------------|---------------------------------|--------------------------------|---------------------------|--------------------------------|-------------------------------------|--------|
| 1885. | | | | | | | | | | | |
| July | White | Male | 5 | | 1 | | | | | | 6 |
| | | Female | 5 | 1 | 1 | | | | | | 7 |
| | Colored | Male | 4 | 3 | | | | | | | 7 |
| August | White | Male | 3 | 5 | 1 | | | | | | 9 |
| | | Female | 3 | | | | 1 | | | | 4 |
| | Colored | Male | 2 | 2 | | | | | | | 4 |
| September | White | Male | 2 | 3 | 1 | | | | | | 6 |
| | | Female | 4 | 3 | 1 | | | | | | 8 |
| | Colored | Male | 1 | 3 | | | | | | | 4 |
| October | White | Male | 5 | 1 | | | | | | | 6 |
| | | Female | 3 | | 1 | | | | | | 4 |
| | Colored | Male | 5 | 5 | 1 | | | | | | 11 |
| November | White | Male | 4 | 1 | 1 | | | | | | 6 |
| | | Female | 2 | 3 | | | | | | | 5 |
| | Colored | Male | 3 | 3 | 1 | | | | | | 7 |
| December | White | Male | 1 | | | | | | | | 1 |
| | | Female | 2 | | | | | | | | 2 |
| | Colored | Male | 2 | 3 | 1 | | | | | | 6 |
| | White | Male | 3 | 3 | | | | | | | 6 |
| | | Female | | | | | | | | | |
| | Colored | Male | | | | | | | | | |
| 1886. | | | | | | | | | | | |
| January | White | Male | 3 | 1 | 2 | 2 | | | | | 8 |
| | | Female | 2 | | | | | | | | 2 |
| | Colored | Male | 7 | 8 | 1 | | | | | | 16 |
| February | White | Male | 1 | 4 | | | | | | | 5 |
| | | Female | 4 | 1 | | 1 | | | | | 6 |
| | Colored | Male | 1 | 7 | 1 | | | | | | 9 |
| March | White | Male | 1 | 6 | | | | | 1 | | 8 |
| | | Female | 2 | | | | | | | | 2 |
| | Colored | Male | 3 | | | | | | | | 3 |
| April | White | Male | 6 | 5 | | | | | | | 11 |
| | | Female | 6 | 1 | | | | | | | 7 |
| | Colored | Male | 1 | | | | | | | | 1 |
| May | White | Male | 2 | | | | | | | | 2 |
| | | Female | 1 | 2 | | | | | | | 3 |
| | Colored | Male | 2 | 2 | | | | | | | 4 |
| June | White | Male | 2 | | 1 | | | | | | 3 |
| | | Female | 5 | | | | | | | 1 | 6 |
| | Colored | Male | 3 | 2 | | | | | | | 5 |
| | White | Male | 4 | 1 | 1 | | | | | | 6 |
| | | Female | 1 | | 1 | | | 1 | | | 3 |
| | Colored | Male | 1 | | | | | | | | 1 |
| | White | Male | 2 | | | | | | | | 2 |
| | | Female | 1 | 9 | 3 | | | | | | 13 |
| | Colored | Male | 1 | 3 | 1 | | | | | | 5 |

RECAPITULATION.

| Hospitals. | Total. | White. | Colored. | Male. | Female. |
|------------------------------------|--------|--------|----------|-------|---------|
| Columbia Hospital..... | 132 | 65 | 67 | 65 | 67 |
| Freedmen's Hospital..... | 101 | 5 | 96 | 55 | 46 |
| Washington Asylum..... | 22 | 11 | 11 | 12 | 10 |
| Saint Ann's Infant Asylum..... | 3 | 3 | | 3 | |
| Garfield Memorial Hospital..... | 1 | 1 | | 1 | |
| Children's Hospital..... | 2 | 2 | | 1 | 1 |
| Government Insane Asylum..... | 1 | | 1 | 1 | |
| National Homeopathic Hospital..... | 1 | 1 | | | 1 |
| Total..... | 263 | 88 | 175 | 138 | 125 |

TABLE XXII.—MARRIAGES (REPORTED).—*Number of brides and grooms, year ending June 30, 1886.*

| Number of marriages of grooms. | Number of marriages of brides. | | | | | |
|--------------------------------|--------------------------------|------------------|-----------------|------------------|-----------------|--------|
| | First marriage. | Second marriage. | Third marriage. | Fourth marriage. | Fifth marriage. | Total. |
| WHITES. | | | | | | |
| First marriage | 506 | 30 | 1 | | | 537 |
| Second marriage | 67 | 23 | 5 | | | 95 |
| Third marriage | 9 | 4 | 1 | | | 14 |
| Fourth marriage | | | | | | |
| Fifth marriage | | | | | | |
| Not given | 3 | | | | 71 | 74 |
| Total | 585 | 57 | 7 | | 71 | 720 |
| COLORED. | | | | | | |
| First marriage | 181 | 15 | 1 | | | 197 |
| Second marriage | 31 | 20 | | | | 51 |
| Third marriage | 4 | 2 | | | | 6 |
| Fourth marriage | | | | | | |
| Fifth marriage | | | | | | |
| Not given | | 1 | | | 16 | 17 |
| Total | 216 | 38 | 1 | | 16 | 271 |
| MIXED.* | | | | | | |
| First marriage | 2 | 2 | | | | 4 |
| | 2 | 2 | | | | 4 |

* Three white grooms and colored brides, and one colored groom and white bride.

TABLE XXIII.—MARRIAGES (REPORTED).—*Nationality of brides and grooms of white race, year ending June 30, 1886.*

| Birthplaces of grooms. | Birthplaces of brides. | | | | | |
|------------------------------------|------------------------|----------|-------------------------------|----------|------------------|--------|
| | United States. | Ireland. | England, Scotland, and Wales. | Germany. | British America. | Total. |
| United States | 612 | 3 | 6 | 5 | 3 | 631 |
| Ireland | 3 | | | | | 3 |
| England, Scotland, and Wales | 18 | | 1 | 1 | | 20 |
| Germany | 18 | | | 22 | | 40 |
| British America | 3 | | | | | 3 |
| All other countries | 7 | | | 1 | 3 | 11 |
| Not given | | | 1 | | | 12 |
| Total | 661 | 3 | 8 | 29 | 5 | 720 |
| Mixed* | 4 | | | | | 4 |
| | 4 | | | | | 4 |

* Three white grooms and colored brides, and colored groom and white bride.

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TABLE XXIV.—MARRIAGES (REPORTED).—*Ages of brides and grooms—white—during the year ending June 30, 1886.*

| Ages of grooms. | Ages of brides. | | | | | | | | Total. |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|--------|
| | Under 20 years. | 20 to 25 years. | 25 to 30 years. | 30 to 40 years. | 40 to 50 years. | 50 to 60 years. | 60 to 70 years. | Over 70 years. | |
| Under 20 years | 9 | | | | | | | | 9 |
| 20 to 25 years | 95 | 107 | 6 | 2 | | | | | 210 |
| 25 to 30 years | 151 | 116 | 53 | 11 | | | | | 231 |
| 30 to 40 years | 22 | 63 | 43 | 39 | 2 | | | | 169 |
| 40 to 50 years | 3 | 12 | 14 | 19 | 4 | 2 | | | 54 |
| 50 to 60 years | 2 | 2 | 5 | 6 | 16 | 3 | | | 24 |
| 60 to 70 years | | 1 | | 1 | 5 | 4 | | | 11 |
| Over 70 years | | | | 1 | | 1 | | | 2 |
| Age not given | | | | | | | | 14 | 14 |
| Total | 181 | 301 | 121 | 79 | 17 | 10 | | 15 | 724 |

* Mixed—one colored groom and white bride.

† Including mixed marriages, three white grooms and colored brides.

TABLE XXV.—MARRIAGES (REPORTED).—*Ages of brides and grooms—colored—during the year ending June 30, 1886.*

| Ages of grooms. | Ages of brides. | | | | | | | | Total. |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|--------|
| | Under 20 years. | 20 to 25 years. | 25 to 30 years. | 30 to 40 years. | 40 to 50 years. | 50 to 60 years. | 60 to 70 years. | Over 70 years. | |
| Under 20 years | 2 | 1 | | | | | | | 3 |
| 20 to 25 years | 33 | 46 | 4 | 2 | | | | | 87 |
| 25 to 30 years | 13 | 35 | 18 | 1 | | | | | 73 |
| 30 to 40 years | 2 | 28 | 26 | 13 | 2 | | | | 71 |
| 40 to 50 years | | | 9 | 10 | 5 | | | | 24 |
| 50 to 60 years | | | | 2 | 6 | | | | 8 |
| 60 to 70 years | | | | 1 | 1 | | | | 2 |
| Over 70 years | | | | | | | | | |
| Age not given | | | | | | | | 3 | 3 |
| Total | 56 | 110 | 57 | 29 | 14 | | | 5 | 271 |

LIST OF REGISTERED PHYSICIANS.

| Name. | Residence. | Name. | Residence. |
|-----------------------|---------------------------|---------------------|--------------------------------|
| Adams, E. A. | 422 8th st. SE. | Coumbe, J. T. | 1304 9th st. NW. |
| Adams, A. C. | 808 11th st. NW. | Corbin, E. L. | 603 Louisiana av. NW. |
| Adams, J. L. | 1335 E st. SE. | Connell, B. F. | 3139 Dumbarton st. NW. |
| Adams, B. B. | 927 N. Y. ave. NW. | Cottrell, J. F. | 725 18th st. NW. |
| Adams, S. S. | 1525 I st. NW. | Carpenter, J. E. | 104 C st. NE. |
| Adams, M. P. | 1602 8th st. NW. | Custis, J. B. G. | 601 East Capitol st. |
| Appleby, J. F. R. | 1439 33d st. NW. | Caldwell, C. T. | 1749 11th st. NW. |
| Atwood, O. W. | 1928 12th st. NW. | Clum, A. H. W. | 1431 S st. NW. |
| Allen, Charles | 415 7th st. SW. | Cook, G. Wythe. | 3 Thomas Circle, NW. |
| Augusta, A. T. | 1319 L st. NW. | Crook, Harrison | 420 7th st. SW. |
| Abert, Charles | 515 10th st. NW. | Crook, W. T. | 906 French st. NW. |
| Acker, G. N. | 1403 N. Y. ave. NW. | Cook, S. L. C. | 1537 K st. NW. |
| Antisell, Thomas | 1311 Q st. NW. | Chew, T. I. | 206 Pa. ave. SE. |
| Antisell, Thomas, Jr. | 1311 Q st. NW. | Cones, Elliott | 1726 N st. NW. |
| Armstrong, William J. | 1629 Conn. ave. NW. | Candee, H. O. | 922 F st. NW. |
| Alleger, C. W. | 245 10th st. NE. | Cardosa, J. L. | 411 L st. NW. |
| Adams, C. B. S. | 422 8th st. SE. | Cleary, F. P. | 237 10th st. NE. |
| Bliss, D. W. | 1320 F st. NW. | Cutts, H. M. | 1418 14th st. NW. |
| Bogan, S. W. | 421 G st. NW. | Collins, J. F. | 628 2d st. NW. |
| Brackett, J. E. | 219 A st. SE. | Chappell, J. W. | Tennallytown, D. C. |
| Bond, S. S. | 813 1st st. NW. | Cissel, W. W. L. | Emergency Hospital. |
| Borrows, Joseph | 921 E st. NW. | Childs, W. E. | 1729 10th st. NW. |
| Behrend, A. | 709 H st. NW. | Collins, C. R. | 1425 8th st. NW. |
| Beall, B. M. | 1740 14th st. NW. | Cate, S. M. | 916 15th st. NW. |
| Bruckheimer, M. | 748 6th st. NW. | Chamberlin, F. T. | National Hotel. |
| Bushnell, J. H. | 1212 10th st. NW. | Carpenter, J. A. S. | 439 I st. NW. |
| Boarman, C. V. | 1114 Md. ave. SW. | Carroll, J. J. | 908 15th st. NW. |
| Bowen, C. H. | 908 6th st. NW. | Cook, G. T. | 1222 S st. NW. |
| Baxter, J. H. | 1504 H st. NW. | Carroll, Joseph | 1442 S st. NW. |
| Baldwin, W. O. | 1915 Pa. ave. NW. | Dorsey, T. G. | 400 B st. SE. |
| Bray, John | 1222 C st. SE. | Dorsey, Lloyd | 913 Mass. ave. NW. |
| Barker, H. H. | 1116 H st. NW. | Dexter, J. E. | 1333 F st. NW. |
| Bulkley, J. W. | 805 12th st. NW. | Darling, Henry | Brightwood, D. C. |
| Eriscoe, W. C. | 317 C st. NW. | De Meza, M. M. | 927 9th st. NW. |
| Bell, Ralph | 711 12th st. NW. | Dovilliers, L. V. | 1221 13th st. NW. |
| Butler, W. K. | 1107 11th st. NW. | Dobson, H. A. | 420 3d st. SE. |
| Brownell, J. R. | 1138 Conn. ave. NW. | Donohue, Florence | 1134 8th st. NW. |
| Busey, S. C. | 1545 I st. NW. | Dyrenfurth, R. G. | 637 F st. NW. |
| Baxter, J. B. G. | 227 E st. NW. | Duvall, W. T. S. | 1009 L st. NW. |
| Bind, J. C. | 1336 G st. NW. | Dooley, F. X. | 301 Pa. ave. SE. |
| Bogue, A. P. | Bureau of Education. | Dyer, J. I. | 1021 15th st. NW. |
| Bogau, M. V. B. | 604 Mass. ave. NW. | Dufour, J. F. R. | 1814 14th st. NW. |
| Bigelow, J. R. | 931 G st. NW. | Daniel, Z. T. | Saint Cloud Building, NW. |
| Bail, C. A. | 233 G st. NW. | Darby, J. J. | 451 O st. NW. |
| Burghardt, C. A. | 1310 I st. NW. | Dunn, J. W. | 125 Pa. ave. SE. |
| Bynes, Wm. F. | 35 B st. SE. | Deane, J. W. | Benning's, D. C. |
| Bayne, J. W. | 116 2d st. SE. | Davidson, J. H. | Bethesda, Md. |
| Balloch, E. A. | 7th st. road, county. | Drury, G. A. | 216 11th st. SW. |
| Burnett, S. M. | 1734 K st. NW. | Davis, C. A. | 1322 I st. NW. |
| Beatty, L. K. | 610 E. Capitol st. | Dabney, T. S. | 716 13th st. NW. |
| Baker, Frank | 326 C st. NW. | Darling, B. F. | 925 E st. NW. |
| Bennett, H. M. | 617 F st. NW. | Danforth, R. Foster | Garfield Memorial Hospital. |
| Brewer, J. S. | 1107 H st. NW. | Dulaney, J. L. | 926 I st. NW. |
| Braithwaite, Sarah | 112 4th st. SE. | Eaton, P. H. | 1318 T st. NW. |
| Buck, R. H. | 908 F st. NW. | Eliot, J. L. | 510 E st. NW. |
| Bennit, William W. | 1003 F st. NW. | Evans, Warwick | 1027 9th st. NW. |
| Bates, N. L. | 1744 G st. NW. | Edson, Susan A. | 1308 I st. NW. |
| Barstow, K. D. | 622 B st. SE. | Elizcy, M. G. | 1012 I st. NW. |
| Bell, William S. | 1502 Q st. NW. | Ellett, D. A. | 1727 7th st. NW. |
| Bishop, F. B. | 2210 Pa. av. NW. | Ewing, Lafayette C. | 1102 N st. NW. |
| Bland, M. G. | 1209 G st. NW. | Elsom, James W. | 1804 14th st. NW. |
| Beakley, J. S. | 1007 13th st. NW. | Edes, Robert I. | 1216 18th st. NW. |
| Bovee, J. W. | Columbia Hospital. | Franzoni, C. W. | 808 H st. NW. |
| Baker, W. W. | 1537 14th st. NW. | Fenwick, G. P. | 502 6th st. SW. |
| Byrne, C. C. | Soldiers' Home. | Fisher, G. W. | Uniontown, D. C. |
| Baggett, J. B. | Mount Pleasant. | French, R. De L. | 1316 T st. NW. |
| Belden, O. S. | 114 C st. NW. | Foster, R. A. | 2029 Q st. NW. |
| Brumbaugh, G. M. | 1022 8th st. NW. | Fry, H. D. | 1133 14th st. NW. |
| Bryan, Joseph H. | 1534 I st. NW. | Francis, J. R. | 2112 Pa. ave. NW. |
| Boyd, J. C. | 1338 G st. NW. | Freeman, J. R. | 1207 G st. NW. |
| Bower, S. W. | 129 Ind. ave. NW. | Fredrich, Leon L. | 323 East Capitol st. |
| Barton, G. C. | 996 H st. NE. | Fernald, F. Clinton | 1013 14th st. NW. |
| Bailey, Thomas B. | 311 1st st. SE. | Falls, M. S. | 1200 18th st. NW. |
| Callan, C. V. N. | 1422 F st. NW. | French, William B. | 320 B st. SE. |
| Crew, S. B. | 146 6th st. SW. | Freer, James A. | 924 N. Y. ave. NW. |
| Cragin, C. H. | 3123 Dumbarton st. NW. | Fleming, Sarah B. | 1803 H st. NW. |
| Clark, D. B. | 1008 13th st. NW. | Fox, G. L. | 1316 R st. NW. |
| Cuthbert, M. F. | 910 14th st. NW. | Gleeson, J. K. P. | 935 R. I. ave. NW. |
| Cruiser, C. B. | 2712 Beall st. NW. | Gibbs, T. F. | |
| Choate, Rufus | 310 Ind. ave. NW. | | |
| Crouse, J. L. | 1213 M st. NW. | | |

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LIST OF REGISTERED PHYSICIANS—Continued.

| Name. | Residence. | Name. | Residence. |
|----------------------|--|------------------------|--|
| Groot, S. I. | 924 N. Y. ave. NW. | Irwin, Fairfax | 2131 K st. NW. |
| Glennan, P. | Corner N. J. ave. and Boundary NW. | Johnson, A. E. | 213 1st st. SE. |
| Garnett, A. Y. P. | 1317 N. Y. ave. NW. | Johnson, J. Taber | 926 17th st. NW. |
| Grinstead, William | 637 9th st. NE. | Johnston, W. W. | 1603 K st. NW. |
| Gross, George. | 311 East Capitol st. | Johnson, J. B. | 922 N. Y. ave. NW. |
| Griffith, M. J. | 1405 5th st. NW. | Johnston, G. F. | 420 6th st. NW. |
| Gulpa, G. E. | Tennallytown, D. C. | Julian, M. L. | 936 C st. SW. |
| Goddard, W. W. | Government Hospital for Insane. | Joyce, J. W. | 500 6th st. NW. |
| Goodman, W. R. | 216 13th st. SW. | Jolley, B. B. | 1210 9th st. NW. |
| Gilbert, C. B. | 1222 N. Y. av. NW. | Johnson, H. L. E. | 819 14th st. NW. |
| Gibson, A. L. | Naval Hospital. | Janney, Edgar | 12 Iowa Circle NW. |
| Goodrick, P. | 718 12th st. NW. | Jameson, A. B. | Park st. Mt. Pleasant. |
| Goldsbrough, E. K. | 1331 K st. NW. | Johnson, R. E. L. | 2033 H st. NW. |
| Gardner, F. A. | 504 14th st. NW. | Johnson, George W. | 1406 H st. NW. |
| Green, E. H. | Naval Dispensary. | Johnston, William M. | 1611 P st. NW. |
| Garley, R. R. | Children's Hospital. | Keech, Thomas A. R. | 424 East Capitol st. |
| Goodell, C. F. | 920 B st. SW. | King, A. F. A. | 726 13th st. NW. |
| Geddes, William | 1730 14th st. NW. | Kleinschmidt, C. H. A. | 3113 N st. NW. |
| Gobrecht, W. H. | 1011 G st. NW. | Kidder, J. H. | Smithsonian Institute. |
| Goodwin, E. | 1013 10th st. NW. | Ketcham, O. C. | 37 C st. NE. |
| Grinder, G. W., Jr. | 201 4th st. SW. | Kellogg, George | 1416 Q st. NW. |
| Gibbs, B. Frank | 1102 9th st. NW. | King, George S. | 708 N st. NW. |
| Glennan, J. D. | Corner N. J. av. and Boundary st. NW. | King, William R. | 812 11th st. NW. |
| Hagner, D. R. | 1814 H st. NW. | Kolpinski, Louis. | Children's Hospital. |
| Herbert, J. W. | 205 H st. NW. | Kehr, Augustus B. | 713 1/2 East Capitol st. |
| Hazen, D. H. | 407 6th st. SW. | Keenan, J. F. | 923 Virginia ave. NW. |
| Hazen, W. P. C. | 511 East Capitol st. | Kingsman, R. | 229 C st. NE. |
| Hammett, C. M. | 644 F st. SW. | Kloeber, John S. | 723 12th st. NW. |
| Hartigan, J. F. | 608 14th st. NW. | Lamb, D. S. | 1324 V st. NW. |
| Huntton, A. J. | Third Auditor's Office. | Landers, Thomas | 926 I st. NW. |
| Henderson, George | NE. cor. 9th and T sts. NW. | Leach, H. E. | 400 7th st. SW. |
| Howard, J. T. | 1126 9th st. NW. | Lee, George | 1315 Vermont ave. NW. |
| Howard, F. | 611 12th st. NW. | Lincoln, N. S. | 1344 H st. NW. |
| Howard, H. N. | 918 Mass. ave. NW. | Little, J. W. | 2111 Pa. ave. NW. |
| Hagner, C. E. | 1400 H st. NW. | Lee, William | 900 12th st. NW. |
| Hyatt, Frank. | 900 K st. NW. | Lovejoy, J. W. H. | 2014 M st. NW. |
| Hansmann, Theo. | 724 13th st. NW. | Lamb, J. M. | 1912 I st. NW. |
| Hood, T. B. | 1009 O st. NW. | Lawver, W. P. | 824 Conn. ave. NW. |
| Herndon, D. | 1441 Corcoran st. NW. | Lindsley, Harvey | 1511 K st. NW. |
| Hartwell, J. B. | 1468 T st. NW. | Little, J. J. | Montello, D. C. |
| Heron, G. H. | 1328 6th st. NW. | Loomis, L. C. | 1326 N. Y. ave. NW. |
| Harrison, J. S. | 604 9th st. NW. | Latimer, George | Government Hospital for the Insane. |
| Harrison, G. B. | 1345 F st. NW. | Lewis, C. O. | Bladensburg, Md. |
| Harrison, J. Stewart | Anacostia, D. C. | Lech, G. A. | 1926 9th st. NW. |
| Hart, Mary E. | 1003 H st. NW. | Luckett, William F. | 1351 Corcoran st. NW. |
| Hamilton, J. B. | 9 B st. NW. | La Fetta, G. H. | 604 9th st. NW. |
| Hoffman, W. J. | 222 E st. NW. | Livingston, L. | 403 8th st. SW. |
| Holden, R. T. | 802 6th st. SW. | Loomis, C. L. | 500 13th st. NW. |
| Hawkes, W. H. | 1330 N. Y. ave. NW. | Lorini, R. | 806 15th st. NW. |
| Hammond, T. V. | 1016 I st. NW. | Luscomb, Arthur | 916 McPherson Sq. |
| Harvey, L. A. | 933 K st. NW. | Luce, Charles R. | Providence Hospital. |
| Huntington, D. L. | 2117 G st. NW. | Lamb, J. Melvin | 2014 M st. NW. |
| Hussey, D. J. | 813 12th st. NW. | Luttrell, S. S. | 601 1/2 4th st. NW. |
| Howard, J. H. | Cor. 4th & Pomeroy sts. NW. | Mallan, C. E. | 920 9th st. NW. |
| Houston, Samuel | 1417 Columbia st. NW. | Mead, Theodore | 902 22d st. NW. |
| Huzbea, W. D. | 807 H st. NE. | Moore, J. B. | 57 K st. NE. |
| Hickling, D. P., Jr. | 319 Pa. ave. NW. | McKim, S. A. H. | 25 5th st. SE. |
| Hall, C. H. H. | 1744 G st. NW. | Morgan, J. E. | 905 E st. NW. |
| Herndon, C. G. | 1744 G st. NW. | Morgan, E. C. | 916 E st. NW. |
| Hialop, Margaret | 313 M st. NW. | Magruder, G. L. | 310 E st. NW. |
| Hammond, W. B. | 619 Pa. ave. NW. | Mundell, J. H. | 1022 18th st. NW. |
| Harvey, H. M. | 610 B st. NE. | Melvin, M. B. | 721 4th st. SW. |
| Hinea, J. M. | 1439 S st. NW. | Maus, R. G. | 1701 6th st. NW. |
| Hartwell, Mary E. | 618 12th st. NW. | Meriam, E. C. | 622 N. J. ave. NW. |
| Handy, W. E. | 300 A st. SE. | Marmion, William V. | 1106 F st. NW. |
| Howell, A. G. | 244 3d st. SW. | Muncester, O. M. | 1405 N. Y. ave. NW. |
| Harvey, P. F. | Cor. 14th st. and N. Y. ave. NW. | McWilliams, A. | 607 1/2 st. SW. |
| Hoover, F. P. | 1615 13th st. NW. | Murphy, P. J. | Columbia Hospital. |
| Hazard, D. L. | 1125 Park Place NE. | Mackall, Louis, Jr. | 3040 Dumbarton st. NW. |
| Hall, A. J. | 728 6th st. NW. | Mackall, J. McV. | 3021 N st. NW. |
| Hore, C. W. | 945 C st. SW. | McBlair, J. H. | 2329 I st. NW. |
| Hiller, J. L. | 1016 14th st. NW. | Maxwell, C. D. | 1716 I st. NW. |
| Hofer, A. J. | 1201 7th st. NW. | Marr, S. S. | 1415 10th st. NW. |
| Howard, J. C. | 2008 G st. NW. | McLeod, Wilfred | Cor. Frederick & Pros- pect st. NW. |
| Holmes, Charles | 1737 11th st. NW. | Marsteller, A. A. | 304 C st. NW. |
| Hill, R. S. | 213 1/2 E st. NW. | McArdle, T. E. | 707 12th st. NW. |
| | | Minnich, William H. | 1837 6th st. NW. |
| | | Mallan, T. F. | 216 2d st. SE. |

LIST OF REGISTERED PHYSICIANS—Continued.

| Name. | Residence. | Name. | Residence. |
|---|--------------------------------------|------------------------------------|--------------------------------|
| Mayfield Clifton | 1213 30th st. NW. | Rixey, P. M. | 1518 K st. NW. |
| Muhleman, S. A. | 723 6th st. NW. | Reyburn, Robert, Jr. | 2129 F st. NW. |
| May, J. F. | 2022 G st. NW. | Riggs, D. H. | 113 E. Cap. st. |
| Markriter, J. I. | 705 6th st. NW. | Robbins, H. A. | 813 14th st. NW. |
| Mason, J. E. | 2100 H st. NW. | Reed, L. T. | 608 12th st. NW. |
| Miller, W. L. | 410 K st. NW. | Rankin, E. B. | 933 F st. NW. |
| McGarvey, A. W. | 807 H st. NE. | Ryon, N. A. | 1000 D st. SE. |
| Mann, H. L. | 334 Ind. ave. NW. | Roberts, Robert R. | 522 10th st. NW. |
| Marshall, Collins | 1010 11th st. NW. | Richardson, C. W. | 1166 L st. NW. |
| Martin, Thomas | 310 N. Y. ave. NW. | Rowland, J. A. | 600 6th st. NW. |
| McLain, J. S. | 1924 N st. NW. | Rawluzs, C. M. | Washington Asylum. |
| Miller, Thomas | 1616 7th st. NW. | Spackman, M. D. | 1634 16th st. NW. |
| Madison, B. F. | 417 B st. SE. | Stanton, J. O. | 1334 G st. NW. |
| Manning, William P. | 1900 16th st. NW. | Stone, C. G. | Brighthouse, D. C. |
| Maddox, William J. | 44 1st. NE. | Sumby, S. A. | 513 3d st. SW. |
| Marx, George | 924 Mass. ave. NW. | Suddarth, J. L. | 2 1st. NE. |
| Mitchell, R. T. | 503 E st. NW. | Stearns, S. S. | 924 1st. NW. |
| Morgan, J. D. | 905 E st. NW. | Sotheron, J. T. | 1019 1st. NW. |
| Morrison, Mary E. | 1809 13th st. NW. | Samson, G. Q. | 2419 Pa. ave. NW. |
| Morgan, E. Lee | 1909 Pa. ave. NW. | Sonnenscheidt, C. W. | 1307 H st. NW. |
| Moore, Andrew M. | 1626 15th st. NW. | Street, D. B. | 228 1st. NW. |
| Mason, William C. | 801 L st. NW. | Sowers, Z. T. | 1320 N. Y. ave. NW. |
| McKone, James J. | 910 N. Y. ave. NW. | Shekell, A. B. | 1529 32d st. NW. |
| Norton, C. A. | 815 H st. NE. | Smith, T. C. | 1133 12th st. NW. |
| Newton, L. E. | 413 L st. NW. | Scholl, Joseph | 615 D st. NW. |
| Naylor, W. L. | 2403 M st. NW. | Sweetman, J. T. | 1919 G st. NW. |
| Neuman, H. M. | 2403 Pa. ave. NW. | St. Clair, F. O. | 1428 R. I. ave. NW. |
| Neale, R. A. | 1808 Pa. ave. NW. | Schaeffer, E. M. | 17 St. Cloud Building. |
| Nourse, C. H. | Darnestown, Md. | Selhausen, E. A. | 636 G st. NW. |
| Niederman, William F. de | 1715 1/2 10th st. NW. | Stratton, J. T. | 517 7th st. SE. |
| Norwood, John | 456 C st. NW. | Suter, H. | 1207 31st st. NW. |
| Norcom, H. S. | 1749 Pa. ave. NW. | Stack, M. J. | Gov't Hospital for the Insane. |
| Norton, Thomas M. | 2033 H st. NW. | Shirley, A. B. | 1336 Q st. NW. |
| Okie, W. T. | 1331 F st. NW. | Shadd, F. J. | Freedmen's Hospital. |
| Ober, G. J. | 233 Pa. ave. SE. | Swormstedt, L. B. | 1455 14th st. NW. |
| Osmun, C. C. | 807 9th st. NW. | Shoulters, G. H. | 510 5th st. NW. |
| O'Reilly, R. M. | 1909 1st. NW. | Shearer, J. G. | 1216 H st. NW. |
| Olmstead, William A. | 1916 15th st. NW. | Shute, D. K. | 831 14th st. NW. |
| Patterson, D. C. (coroner) .. | 919 1st. NW. | Samner, Jeanette J. | 937 N. Y. ave. NW. |
| Porter, H. T. | 3014 O st. NW. | Stanford, Flora H. | 411 H st. NW. |
| Palmer, W. G. | 929 H st. NW. | Snyder, A. A. | 805 N st. NE. |
| Palmer, G. S. | 1113 Mass. ave. NW. | Stone, T. R. | 1630 R. I. ave. NW. |
| Purvis, C. B. | 1118 13th st. NW. | Smith, D. A. | Curtis Building, Georgetown. |
| Parsons, Mary A. | 1216 H st. NW. | Sprigg, William | Garfield Memorial Hospital. |
| Pope, G. W. | 1109 14th st. NW. | Stafford, John J. | 901 4 1/2 st. SW. |
| Parsons, John | 8 1st. NE. | Stockstill, D. C. | 725 8th st. NW. |
| Prentiss, D. W. | 1101 14th st. NW. | Sessford, J. S. F. | 2109 K st. NW. |
| Peter, Armistead | 3050 O st. NW. | Schwalbe, Samuel | 723 6th st. NW. |
| Poulton, W. E. | 426 4 1/2 st. SW. | Saffold, J. P. | 1604 8th st. NW. |
| Parkinson, C. | 1003 O st. NW. | Smith, G. W. | 321 6th st. SE. |
| Pitts, William | 1808 14th st. NW. | Shackelford, J. T. | 2064 8th st. NW. |
| Parker, J. M. | Anacostia, D. C. | Summy, B. W. | 920 19th st. NW. |
| Pool, Ben. G. (medical sanitary inspector) .. | 945 R. I. ave. N. W. | Townshend, Smith (health officer). | 221 4 1/2 st. NW. |
| Purman, J. J. | 1435 Chapin st. NW. | Thompson, J. F. | 1401 H st. NW. |
| Pyles, R. A. | Anacostia, D. C. | Turner, T. J. | 1304 R. I. ave. NW. |
| Persons, R. C. | Receiving ship Wyandotte, navy-yard. | Tarkington, J. A. | 217 D st. NW. |
| Perry, G. N. | 1524 14th st. NW. | Torry, Turner | Anacostia, D. C. |
| Petty, Charles V. | 425 4th st. NW. | Taylor, W. H. | 619 M st. NW. |
| Purman, L. C. | 1608 Marion st. NW. | Toner, J. M. | 615 La. ave. NW. |
| Page, W. R. | 815 12th st. NW. | Tyler, W. B. | 3269 M st. NW. |
| Patterson, A. C. | Gov't. Hospital for the Insane. | Tyler, A. C. | 401 3d st. NW. |
| Park, F. E. | 1727 10th st. NW. | Taylor, L. M. | 701 M st. NW. |
| Price, William B. K. | 1021 Conn. ave. NW. | Trott, T. H. | 232 N. J. ave. SE. |
| Perkins, J. T. | 22 8th st. NE. | Townsend, W. W. | 1209 R. I. ave. NW. |
| Pureell, McDaniel | 941 H st. NW. | Taylor, Thomas | 238 Mass. ave. NE. |
| Raines, C. H. | 1112 B st. NE. | Tyler, Lachlan | 1206 G st. NW. |
| Raines, W. M. | 1407 G st. NW. | Turpin, H. W. | 4 7 1/2 11th st. NW. |
| Rautenberg, Charles | 215 3d st. NW. | Thompson, M. F. | 1113 Pa. ave. NW. |
| Rautenberg, L. E. | 510 5th st. NW. | Taylor, T. Archibald | 416 10th st. NW. |
| Reyburn, R. | 2129 F st. NW. | Tancil, A. W. | 2116 Pa. ave. NW. |
| Reilly, J. R. | 221 4 1/2 st. SW. | Verdi, T. S. | 815 14th st. NW. |
| Ritchie, L. W. | 3259 N st. NW. | Van Vliet, F. C. | 819 15th st. NW. |
| Roberts, W. E. | 715 G st. SE. | Van Dyck, J. M. | Ebbitt House. |
| Radcliffe, S. J. | 1523 K st. NW. | Waleh, J. K. | 1111 13th st. NW. |
| Reynolds, W. B. | 404 F st. SW. | Ward, William W. | 1735 Pa. ave. NW. |
| Ravenberg, R. | 1448 Pierce st. NW. | Walter, J. | 1010 F st. NW. |
| Rosse, I. C. | 1730 H st. NW. | Winter, J. T. | 1528 9th st. NW. |
| Rogers, A. P. | 787 4th st. SE. | Watts, S. R. | 1008 19th st. NW. |
| Roberts, Grace | 420 5th st. SE. | | |

602 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

LIST OF REGISTERED PHYSICIANS—Continued.

| Name. | Residence. | Name. | Residence. |
|----------------------|--|----------------------|----------------------|
| Winslow, Caroline B. | 1 Grant Place NW. | Winter, E. C. C. | 601 H st. SW. |
| Wolsh, Ralph | 1322 N. Y. ave. NW. | Wright, G. H. | Central Dispensary. |
| Woods, D. P. | 801 H st. NW. | Wales, P. S. | 813 Vt. av. NW. |
| Wegman, Samuel | | Wales, P. G. | 813 Vt. av. NW. |
| Wells, C. A. | Bladensburg, Md. | Wagner, G. H. | 645 N. J. av. NW. |
| West, G. W. | 1102 14th st. NW. | White, C. H. | Museum of Hygiene. |
| Whitner, A. H. | Government Hospital for the Insane. | Woodman, F. J. | 631 East Capitol st. |
| Wallace, M. F. | 104 Ind. ave. NW. | Wooster, Mary S. | 2250 11th st. NW. |
| White, J. M. | Brightwood, D. C. | Washington, S. A. H. | 403 8th st. SW. |
| Whisman, W. H. H. | 939 T st. NW. | Walker, Allen | Brightwood, D. C. |
| Werner, P. P. | 608 Mass. ave. NE. | Young, P. G. | 1317 8th st. NW. |
| Wise, T. M. | 606 M st. NW. | Young, J. T. | 1336 N. Y. av. NW. |
| | | Yarrow, H. C. | 814 17th st. NW. |

LIST OF REGISTERED UNDERTAKERS.

| | | | |
|---------------------|------------------------------|----------------------|----------------------|
| Anderson, J. H. | Hilldale, D. C. | Gawler, Joseph | 1726 Pa. av. NW. |
| Barker, E. W. | 612 11th st. NW. | Harvey, R. F. | 922 Pa. av. NW. |
| Birch, Joseph F. | 3042 M st. NW. | Herbert, J. F. | Harmony Cemetery. |
| Boteler, E. M. | 735 8th st. SE. | Johnson, Isaac | 812 3d st. SW. |
| Burgdorf, August | 312 Pa. av. NW. | Jordan, H. | 1010 8th st. NW. |
| Belbow, James | 633 N. J. av. NW. | Lee, John W. | 332 Pa. av. NW. |
| Batters, G. C. H. | 1408 S. C. av. SE. | Lee, Joseph C. | 325 Pa. av. NW. |
| Berry, D. A. | 429 44 st. SW. | Lewis, William | 2247 Boundary st. NW |
| Bond, Thomas | Uniontown, D. C. | Mitchell, J. M. | 914 11th st. SE. |
| Brown, W. P. & Son | Cor. 9th and E sts. SE. | McHenry, J. P. | Mt. Olivet Cemetery. |
| Burdett, William F. | Presbyterian Cemetery. | McKerchar, Alexander | Glenwood Cemetery. |
| Cain, R. S. | 1011 7th st. NW. | Mundy, M. L. | Rock Creek Cemetery |
| Campbell, George | 500 K st. SW. | Parker, A. | 1734 L st. NW. |
| Clements, J. T. | 1235 32d st. NW. | Speare, W. R. | 940 F st. NW. |
| Cross, J. B. | Cong. Cemetery. | Spindler, Fred | 1233 7th st. NW. |
| Cohen, Moses | 8th bet. H and I sts. NW. | Spindler, William F. | 1029 7th st. NW. |
| Canter, C. E. | 314 I st. NW. | Sigourney, W. S. | 2824 Pa. av. NW. |
| Day, Addison | 301 44 st. SW. | Shelton, J. H. | Methodist Cemetery. |
| Davis, J. H. | 1026 11th st. NW. | Smith, N. | 1723 Cedar st. NW. |
| Dabney, J. H. | 441 L st. NW. | Sims, John | M st. Georgetown. |
| Duvall, L. E. | 731 44 st. SW. | Speaks, Henry | Payne's Cemetery. |
| Fries, Mrs. D. | 1008 6th st. NW. | Wetzel, J. A. | 1317 32d st. NW. |
| Finn, Cornelius | 912 Pa. av. NW. | Wright, J. R. | 1137 10th st. NW. |
| Geler, Frank, Sons | 1113 7th st. NW. | Wise, G. W. | 2900 M st. NW. |
| Gesch, Francis | Bladensburg, Md. | Williams, Lemuel | 1705 Pa. av. NW. |
| Gafford, W. H. | Graceland Cemetery. | West, John | 1113 Q st. NW. |
| | | Zuhoerst, G. P. | 320 Pa. av. SE. |

LIST OF REGISTERED PLUMBERS.

| | | | |
|--|---|---|----------------------------------|
| Atchison, Julius I. | 1316 14th st. NW. | Caverly, Edward | 1425 N. Y. av. NW. |
| Anadale, John A. | 1236 9th st. NW. | Curtin, Andrew G. | 318 D st. NE. |
| Anderson, James F. | 304 B st. SE. | Campbell, William P. | 425 44 st. SW. |
| Atchison, R. A. & C. B. | 913 U st. NW. | Cole, Marcellus | 113 7th st. SE. |
| Artz, Samuel | 3027 M st. NW. | Carmody, John | 1241 6th st. SW. |
| Bond, E. | 133 Pa. av. NW. | Calahan & Maisak | Cor. 3d st. and Mass. av. NW. |
| Barker, J. W. | 401 7th st. SW. | | |
| Bride, C. T. | 306 Pa. av. SE. | Cruit, Henry K., and Rob- erts, S. Scott | 817 9th st. NW. |
| Brien, James F. | 419 9th st. NW. | Daly, John | 638 G st. NW. |
| Brooks, R. C. | 627 D st. NW. | Dougherty, William W. | 488 La. av. NW. |
| Brooks, E. P. | 531 15th st. NW. | Driscoll, Humphrey | 822 6th st. NW. |
| Barnard, Edward | 926 19th st. NW. | Dent, Augustus S. | 814 19th st. NW. |
| Benter Max A. | 606 D st. NW. | Donaldson, Thomas S. | 1424 E st. NW. |
| Bagby, William W. | 807 4th st. NW. | Daly, Peter | 815 12th st. NW. |
| Berry, William H., and James E. Snit. | 534 8th st. SE. | Daniels, J. W., & Bro | 1122 F st. NE. |
| Butler, John A. | 931 5th st. NW. | Delaney, Peter J. | 3203 Pa. av. NW. |
| Busey, Walter | 1313 5th st. NW. | Devereux, Frank N., and John Gauban. | 703 13th st. NW. |
| Brill & Hayden | 308 Pa. av. NW. | Duffy, William, and Jere- miah O'Day (Duffy & O'Day). | 312 3d st. NW. |
| Berry, W. C. | 503 9th st. NW. | | |
| Brown, Martin V. | 8th bet. G and E sts. SE., rear Odd Fel- lows' Hall | Eckloff, Christian T. | 812 North Capitol st. |
| Brown, Thomas | 1316 Mass. av. NW. | Edwards, T. J. | 1322 12th st. NW. |
| Bowden, Charles W. | | Enright, Michael A. | 228 O st. NW. |
| Bounds, Oliver | B. and O. Depot. | Edwards, George T. | 808 I st. NW. |
| Conner, James A. | 792 O st. NW. | Fitzhugh, J. B. | 306 East Capitol st. |
| Carpenter Benjamin W. | 116 10th st. SE. | Fritz, Theodore | 503 10th st. NW. |
| Cantwell, John | 423 2d st. SW. | Fitzgerald, Robert | 22 G st. NW. |
| Campbell, Robert G. | 517 10th st. NW. | Gorman, Edward | 181 M st. NW. |

LIST OF REGISTERED PLUMBERS—Continued.

| Name. | Residence. | Name. | Residence. |
|--|--|---|--|
| Goodall, George W. | 601 C st. NW. | Niland, Patrick. | 833 20th st. NW. and 1150 20th st. NW. |
| Garrett, Charles S. | 485 G st. SW. | O'Hagan, James. | 1917 Pa. av. NW. |
| Horan, James F. | 416 4½ st. SW. | O'Donnoghue, Joseph. | 3055 M st. NW. |
| Hay, Bushrod C. | 24 E st. NW. | O'Hare, Edward. | 717 18th st. NW. |
| Hannan, Daniel. | 517 F st. NW. | Power, John A., & Co. | 417 10th st. NW. |
| Hill, Richard A., and Ro- zier, C. | 1741 11th st. NW. | Pettit & Dripps. | 14 and B sts. NW. |
| Harrison, James T. | 603 Pa. av. SE. | Pierce, William S., and William H. Barry. | 936 Pa. av. NW. |
| Hayward & Hutchinson. | 424 9th st. NW. | Quinter, Joseph R., jr. | 1323 Vt. av. |
| Hilteary, Theodore. | 1218 E st. NW. | Rapley, William H. | 1402 Pa. av. NW. |
| Hannan, Edward J. | 517 11th st. NW. | Ridgway, Edward A. | 1311 F st. NW. |
| Harrover, James R. | 2102 14th st. NW. | Rothwell, William. | 119 10th st. NE. |
| Hoffman, Frank F. | 1209 4th st. NW. | Ragan, James. | 420½ 11th st. NW. |
| Humphrey, Thomas. | 1742 14th st. NW. | Regan, Cornelius. | 818 5th st. NE. |
| Hurley, John W. | 908 E st. NW. | Shedd, Samuel S. | 409 9th st. NW. |
| Hutchinson, William T. | 510 7th st. SE. | Schaffer, George F. | 635 D st. NW. |
| Haislip, John W. | 908 9th st. NW. | Spearing, Samuel J. | 450 Pa. av. NW. |
| Jenks, W. S., & Co. | 717 7th st. NW. | Stoithson, Charles F. | 478 G st. SW. |
| King, Frank A. | 1319 7th st. NW. | Suman, James L. | 801 D st. NW. |
| Koppel, John A. | 17 H st. NE. | Sherwood, Samuel H. | 1121 7th st. NW. |
| Kerr, Thomas W. | 917 F st. NW. | Sebastian, John W. | 621 M st. NW. |
| Krause, John. | 1910 K st. NW. | Shepherd, Aron. | 2017 14th st. NW. |
| Keese, W. F. | 6th and Va. av. NW. | Sullivan, Daniel J. | 402 13th st. NW. |
| Knorline, George. | 619 C st. NE. and 94 Northern Market. | Sanderson, John W. | 2 F st. NW. |
| Knight, W. P. | 508 H st. NW. | ScheM, Seth. | 1341 29th st. NW. |
| Lockhead, James. | 1404 Pa. av. NW. | Shea, Daniel E. | 901 5th st. NW. |
| Lyon, John. | 1308 D st. NW. | Stewart, Samuel H. | 440 6½ st. SW. |
| Lee, William. | 4 3d st. SE. | Talty, James. | 1017 I st. NW. |
| Lockhead, Charles. | Sherman av. NW. | Tennant, Alexander. | 1228 32d st. NW. |
| McAvey, John M. | 1208 24th st. NW. | Thorn, Charles G. | 1223 F st. NW. |
| McBee, Randolph. | 1227 7th st. NW. | Thorn, Henry C. | 725 13th st. NW. |
| Moran, John. | 2126 Pa. av. NW. | Thomas, William A. | 1337 9th st. NW. |
| McMahon, John J. | 901 26th st. NW. | Umhan, C. F. | 1714 7th st. NW. |
| Mitchell, John. | 820 14th st. NW. | Venable & Sullivan. | 822 20th st. NW. |
| McCarthy, John I. | 3143 N st. NW. | Waters, Sandford M. | 1213 32d st. NW. |
| Miller, Thomas W. | 931 9th st. NW. | Wilkerson, John H. | 220 7th st. SE. |
| Martin, Winfield S. | 88 Myrtle st. NE. | Ward, William N. | 1304 H st. NW. |
| Marsden, Frank L. | 503 7th st. SW. | Williamson, D. S. | 723 Mass. av. NW. |
| McCarthy, Michael A. | 626 North Capitol st. | Winter, H. E. | 832 Del. av. NE. |
| Mathews, Charles. | 344 Maine av. | Ward & Cunningham. | 414 11th st. NW. |
| Murphy, Morris. | 1151 I st. NW. | Wall, William. | 916 26th st. NW. |
| Murray, F. W. | 1115 Park place NE. | Whalen, William. | Montgomery Hotel, 324 bet. O and P sts. NW. |
| McNier, George W. | 1101 E st. NW. | Walker, Christopher C. | 3004 K st. NW. |
| Merrillat, Oliver F. | 744 4th st. NW. | Clark, J. B. | 1721 6th st. NW. |
| Mills, Romulo. | 1211 11th st. SE. | Gibson, T. A. | 1505 Pierce st. NW. |
| Noonan, Timothy V. | 1121 Vt. av. NW. | Gallagher, B. | 803 14th st. NW. |
| Nolan, James. | 721 14th st. NW. | Venable, J. A. | 1332 13th st. NW. |
| Noonan, John. | 2413 H st. NW. | | |



LAWS AND REGULATIONS RELATING TO THE PUBLIC HEALTH.

ACT OF CONGRESS ESTABLISHING BOARD OF HEALTH.

Section 26 of an act of Congress approved February 21, 1871, entitled "An act to provide a government for the District of Columbia."

[Sec. 72. chap. 1, vol. 2, Revised Statutes.]

* * * * *

SEC. 26. *And be it further enacted*, That there shall be appointed by the President of the United States, by and with the advice and consent of the Senate, a board of health for said District, to consist of five persons, whose duty it shall be to declare what shall be deemed nuisances injurious to health, and to provide for the removal thereof; to make and enforce regulations to prevent domestic animals from running at large in the cities of Washington and Georgetown; to prevent the sale of unwholesome food in said cities; and to perform such other duties as shall be imposed upon said board by the legislative assembly.

* * * * *

Approved February 21, 1871.

Section 8 of an act of Congress approved June 11, 1878, entitled "An act providing a permanent form of government for the District of Columbia."

* * * * *

SEC. 8. That in lieu of the board of health now authorized by law, the Commissioners of the District of Columbia shall appoint a physician as health officer, whose duty it shall be, under the direction of the said Commissioners, to execute and enforce all laws and regulations relating to the public health and vital statistics, and to perform all such duties as may be assigned to him by said Commissioners; and the board of health now existing shall, from the date of the appointment of said health officer, be abolished.

* * * * *

Approved June 11, 1878.

PUBLIC RESOLUTION—No. 20.

JOINT RESOLUTION legalizing the health ordinances and regulations for the District of Columbia.

Resolved by the Senate and House of Representatives of the United States in Congress assembled, That the ordinances of the late board of health of the District of Columbia, as revised, amended, and adopted, November nineteenth, eighteen hundred and seventy-five, entitled "An ordinance to revise, consolidate, and amend the ordinances of the board of health, to declare what shall be deemed nuisances injurious to health and to provide for the removal thereof," as printed in the report of said late board of health made to the first session of the Forty-fourth Congress, being Executive Document number one, part eight, be, and the same are hereby, legalized; and the respective penalties therein prescribed for violations thereof may be imposed and enforced for the respective offenses therein described, excepting the sections of said ordinance following, namely: Sections seven, nine, and fourteen, which said sections are not hereby legalized.

SEC. 2. That the ordinances, rules, and regulations of said late board of health contained in the report mentioned in the preceding section, and printed in the said executive document therein mentioned, namely:

Domestic animals.

First. "An ordinance to amend an ordinance to prevent domestic animals from running at large within the cities of Washington and Georgetown, passed by the board of health May nineteenth, eighteen hundred and seventy-one";

Unwholesome food.

Second. "An ordinance to prevent the sale of unwholesome food, in the cities of Washington and Georgetown";

Inspection of streets, food, live stock, marine products, &c.

Third. "An ordinance to provide for the inspection of streets, food, live stock, fish and other marine products, in the cities of Washington and Georgetown, and to define the duties of inspectors and other officers of the board of health";

Fourth. "An ordinance to amend section ten of the code so as to read":

Fifth. "An ordinance to amend an ordinance passed May thirteenth, eighteen hundred and seventy-three, to read as follows":

Sixth. "An ordinance to prevent committing or creating nuisances in or about public urinals located within the cities of Washington and Georgetown";

Small-pox.

Seventh. "Rules and regulations in regard to small-pox";

Vital statistics.

Eighth. "Regulations to secure a full and correct record of vital statistics, including the registration of marriages, births, and deaths, the interment, disinterment, and removal of the dead in the District of Columbia," be, and the same are hereby, legalized and made valid; and the penalties therein provided respectively for violations thereof, may be imposed and enforced for the violations of the same respectively, as provided by section twenty-seven of the ordinances passed November nineteenth, eighteen hundred and seventy-five.

Approved, April 24, 1880.

Ordinances as revised, amended, and adopted by the board of health, November 19, 1875.

AN ORDINANCE to revise, consolidate, and amend the ordinances of the board of health, to declare what shall be deemed nuisances injurious to health, and to provide for the removal thereof.

Be it ordained and enacted by the board of health of the District of Columbia, That filth, the contents of cess-pools, offal, garbage, foul water, dye-water, refuse from manufactories, ordure, urine, stable-manure, decayed animal or vegetable matter, or other offensive substance detrimental to health, thrown, placed, or allowed to remain, in or upon any street, avenue, alley, sidewalk, gutter, public reservation, or open lot, in the cities of Washington and Georgetown, or in the more densely populated suburbs of said cities, are hereby declared nuisances injurious to health; and any person who shall commit, create, or maintain the aforesaid nuisances, or either of them, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

SEC. 2. That the carrying and transporting of bones, hides, fish, garbage, offal, or other animal or vegetable substances, in decomposing and offensive condition, in any other than covered and inclosed vehicles, through any street, avenue, alley, or public place, within the cities of Washington and Georgetown, or the more densely populated suburbs of said cities, is hereby declared a nuisance injurious to health; and any person who shall cause, commit, create or maintain such nuisance, shall, upon conviction, be fined not less than two nor more than twenty-five dollars for every such offense.

SEC. 3. That manure accumulated in great quantities; manure, offal, or garbage piled or deposited within 300 feet of any place of worship, or of any dwelling, or unloaded along the line of any railroad, or in any street or public way; cars or flats loaded with manure, or other offensive matter, remaining or standing on any railroad, street, or highway in the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, are hereby declared nuisances injurious to health; and any person who shall pile or deposit manure, offal, or garbage, or any offensive or nauseous substance within 300 feet of any inhabited dwelling within the limits of said cities, or their said suburbs; and any person who shall unload, discharge, or put upon or along the line of any railroad, street or highway or public place, within said cities or their said suburbs, any manure, garbage, offal, or other offensive or nauseous substance within 300 feet of any inhabited dwelling, or who shall cause or allow cars or flats loaded with, or having in or upon them any such substance to remain or stand in or along any railroad, street or highway, within the limits of said cities or their suburbs, within 300 feet of any inhabited dwelling, and who shall fail, after notice duly served by this board, to remove the same, shall, upon conviction thereof, be fined not less than five, nor more than twenty-five dollars for every such offense.

Filth or other offensive substance thrown in streets, avenues, or public places.

Carrying offensive substances in open vehicles through streets, avenues, &c.

Manure, offal, and other offensive substances, in large quantities, within 300 feet of any dwelling or along line of street, railroad, &c.

Filling lots with filth and offensive substances, or removing surface of lots so filled.

SEC. 4. The filling, leveling or raising the surface of any ground or lot within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, with animal or vegetable substances, filth gathered in cleaning yards or streets, or waste material from mills or factories, or the removal of the surface of any ground or lot within said cities or their said suburbs, filled with such offensive matter or substance, in such manner as to cause noisome odors or noxious gases to arise, are hereby declared nuisances injurious to health; and any person who shall cause, commit, create, or maintain such nuisance, shall, upon conviction, be fined not less than five nor more than twenty-dollars for every such offense.

Defiling or poisonous substances thrown into spring, well, or river water, public reservoir, water pipe.

SEC. 5. That throwing or placing any defiling or poisonous substance, decayed animal or vegetable matter or filth into, or causing or allowing the same to pass or enter into, any spring, well, or river water, used by the public for drinking or cooking purposes, or into the water of any public reservoir or water pipe within the District of Columbia, whereby such water is rendered impure and unwholesome, are hereby declared nuisances injurious to health; and any person who shall commit or create such nuisance shall, upon conviction, be fined not less than five nor more than fifty dollars for every such offense.

Impure and unwholesome wells or springs.

SEC. 6. That any wells, springs, or water used for drinking or cooking purposes, which are impure and unwholesome, or which have been rendered impure and unwholesome by reason of any defiling or poisonous substance, are hereby declared nuisances and injurious to health; and any person who shall maintain or continue such nuisance, after due notice from this board to abate the same, shall, upon conviction, be fined not less than ten nor more than fifty dollars for every such offense.

Stagnant water on lots and marshy land.

SEC. 7. That stagnant water upon any ground or lot within the cities of Washington and Georgetown, or the more densely populated suburbs of said cities, and any marshy land, the same being made such by defective drainage or otherwise, are hereby declared nuisances injurious to health; and any person causing, creating or maintaining such nuisances, who shall, after due notice from this board, refuse or neglect to abate the same, shall, upon conviction, be fined not less than ten nor more than one hundred dollars for every such offense.

Ailantus trees in bloom producing offensive and noxious odors.

SEC. 8. That ailantus trees, the flowers of which produce offensive and noxious odors, in bloom, in the cities of Washington and Georgetown, or the more densely populated suburbs of said cities, are hereby declared nuisances injurious to health; and any person maintaining such nuisance, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than ten dollars for every such offense.

Filthy, badly ventilated, undrained, damp, and unhealthy dwellings, &c.

SEC. 9. That any dwelling-house or building wherein people live, congregate, or assemble, which is deficient in ventilation, drainage, or other provision essential to health, which has a leaky roof or is below grade so as to render the walls thereof damp and the rooms unhealthy, or is de-

cayed or filthy, and premises which are filthy and offensive, are hereby declared nuisances injurious to health; and any person who shall create or maintain such nuisance, and who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than fifty dollars for every such offense.

SEC. 10. That drain-pipes, soil-pipes, passages into sewers, or connections between any sewer and any ground or building, not of adequate and sufficient size to allow the free and entire passage of all the material that enters the same, or not provided with good and sufficient sewer traps, so as to prevent the escape of noisome gases therefrom, are hereby declared nuisances injurious to health; and any person creating or maintaining either of said nuisances, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

SEC. 11. That all water-closets and privies connected with any house, building, or premises, within the District of Columbia, in or upon which people live, or where they congregate or assemble, or any kind of business is done, kept in a filthy and offensive condition, or from which noisome odors and noxious gases arise, and all water-closets located within and being a part of any such house or building not provided with proper sewer-traps so as to prevent the return and escape of noxious gases and offensive odors from any public or private sewer connected therewith, are hereby declared nuisances injurious to health; and any person creating, keeping, or maintaining such nuisance shall, upon conviction, be fined not less than five or more than twenty-five dollars for every such offense.

SEC. 12. That any privy within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, including Uniontown or Anacostia, and Mount Pleasant, in the District of Columbia, constructed of other material than brick, cement, or wood, or which is not provided with a sufficient box, bucket, or vessel for the reception of filth, and the inside of which is not at least five feet distant from the line of any adjoining lot, and at least two (2) feet distant from any street, lane, alley, camp, square, or public place, or public or private passage-way; and any privy so constructed that it cannot be conveniently approached and cleaned, or in such manner that each and every vault, box, bucket, or vessel thereof is not made tight and close, so that the contents thereof cannot escape therefrom, except as may be permitted by means of a passage-way or conduit under ground, for the purpose of carrying away the contents of such vault, box, or vessel into any common sewer or drain, is hereby declared a nuisance injurious to health; and any person who shall create, maintain, or continue such nuisance, and shall fail, after due notice from this board, to abate or remedy the same, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

SEC. 13. That fecal matter, not thoroughly deodorized and disinfected, remaining in privies in the District of Co-

Inadequate and insufficient drain-pipes, soil-pipes, and passages into sewers.

Filthy and offensive water-closets and privies.

Privies unlawful and improperly constructed or located.

Leaky privies, privy-boxes, vaults, &c.

Faecal matter remaining in privies.

Privies to be inspected and cleaned.

lumbia, is hereby declared a nuisance injurious to health; and the board of health shall, upon the receipt of complaint in writing, cause any privy to be inspected, and, if necessary, cleaned by the person authorized for said purpose; and any person owning or occupying premises on which any privy is situated, who shall refuse to permit the same to be inspected and cleaned at the times designated by said board, or whenever necessary, shall, upon conviction, be fined not less than five dollars for every such offense.

No person to clean privies for hire unless authorized by the board of health.

SEC. 14. That it shall be unlawful for any person other than such as shall be authorized by this board, to clean any privy in the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, for hire; or for any person to employ any other than a regular appointee or contractor of this board for such purpose; any person so offending shall, upon conviction, be fined not less than ten dollars for every such offense.

Depositing contents of privy in place not approved by board of health.

SEC. 15. That it shall be unlawful for any person to deposit the contents of any privy in any place other than such as may be approved by this board; and any person so offending shall, upon conviction, be fined not less than five nor more than fifty dollars for every such offense.

Bucket system of removing night-soil and transporting contents in carts, &c., not air-tight through streets, &c.

SEC. 16. That the system heretofore in use of removing night-soil, cleaning privies, privy-boxes, vaults, sinks, and cess-pools within the cities of Washington and Georgetown, and the more densely populated suburbs of the said cities, by buckets or other process agitating and exposing the contents thereof in the open air, and of transporting said contents in carts and other vehicles not air-tight, through the streets, avenues, alleys, and other public places within said cities, and their said suburbs, is hereby declared a nuisance injurious to health; and that from and after the 15th day of October, A. D. 1873, no part of the contents (except substances not soluble in water) of any privy, privy-box, vault, sink, or cess-pool within said cities or their said suburbs, shall be removed therefrom, nor shall the same be transported through any of the streets, avenues, alleys, or other public places of said cities or of their said suburbs, except as the same shall be removed and transported by means of some air-tight apparatus, pneumatic or other process, so as to prevent the said contents from being agitated or exposed in the open air during said process of removal or transportation; and any person violating the provisions of this section shall, upon conviction thereof, be fined not less than ten or more than fifty dollars for every such offense.

On and after October 15, 1873, contents of privies, &c., to be removed and transported only by air-tight apparatus.

SEC. 17. That the keeping, herding, and feeding of hogs, in pens or otherwise, within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, is hereby declared a nuisance injurious to health; and any person creating or maintaining such nuisance, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

Keeping and feeding of hogs in pens, &c.

SEC. 18. That filthy and unwholesome stables, sheds, pens, or places where cows, horses, mules, or other animals are kept, within the cities of Washington or Georgetown, or

Filthy and unwholesome stables, sheds, and pens.

SEC. 18. That filthy and unwholesome stables, sheds, pens, or places where cows, horses, mules, or other animals are kept, within the cities of Washington or Georgetown, or

the more densely populated suburbs of said cities, are hereby declared nuisances injurious to health; and any person creating or maintaining such nuisance, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

SEC. 19. That any animal affected by glanders or other contagious or pestilential disease, kept or remaining in any stable, shed, pen, or place within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, is hereby declared a nuisance injurious to health; and any person keeping or maintaining such nuisance, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

Glandered or diseased animals remaining in stables, pens, &c.

SEC. 20. That all establishments or places of business for tanning, skinning, scouring, or dressing hides or leather, within the District of Columbia, in a filthy condition, or from which noisome odors and noxious gases arise, are hereby declared nuisances injurious to health; and any person who shall erect, create, maintain, or continue such nuisance, and who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than ten nor more than fifty dollars for every such offense.

Filthy and noisome tanneries, &c.

SEC. 21. That the boiling of offal, swill, bones, fat, tallow, or lard; the crushing, grinding, or burning of bones or shells; cleansing of guts; making glue from any dead animal or part thereof; making or boiling varnish or oil; making lampblack, turpentine, or tar; distilling ardent, alcoholic, or fermented spirits; storing or keeping scraps, fat, grease, or other offensive animal matter; rendering or trying out dead, undressed, and unslaughtered animals, or any other business or trade whereby noisome stenches and odors and noxious gases arise or are generated, within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, are hereby declared nuisances injurious to health; and any person who shall cause, erect, create, maintain, or continue any such nuisance, and who shall fail, after due notice from this board, to abate the same, shall, upon conviction thereof, be fined not less than ten nor more than one hundred dollars for every such offense.

Boiling swill, burning bones, and other offensive and noxious trades, &c.

SEC. 22. That unclean and filthy slaughter-houses, rooms, buildings, or places where sheep, hogs, cattle, or other animals are slaughtered, within the District of Columbia, are hereby declared nuisances injurious to health; and any person creating, keeping, or maintaining such nuisance, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than ten nor more than fifty dollars for every such offense.

Unclean and filthy slaughter-houses.

SEC. 23. That the crushing or breaking of stone within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, by machines or otherwise, in such manner as to create offensive and deleterious dust, is hereby declared a nuisance injurious to health; and any person creating or maintaining said nuisance, who shall fail,

Crushing or breaking stone, creating offensive dust, &c.

after due notice from this board, to remove or abate the same, shall, upon conviction, be fined not less than ten nor more than fifty dollars for every such offense.

Undressed dead animals remaining in cities of Washington and Georgetown.

SEC. 24. That undressed dead animals being or lying in any part of the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, viz: Any of the horse, mule, or jack kinds, or any cow, goat, calf, sheep, dog, or swine, are hereby declared nuisances injurious to health; and any person owning, possessing, or controlling any such dead animal, or any person who shall knowingly place or allow such dead animal to remain in any part of said cities or their said suburbs, and who shall fail to give notice thereof to the board of health within eight hours after the death of said animal, shall, upon conviction, be fined not less than five nor more than ten dollars for every such offense.

Unmuzzled and hydrophobic dogs going at large to be killed by owner, or taken up and shot by poundmaster if not redeemed.

SEC. 25. That unmuzzled dogs, going upon any street, avenue, or other public place, between the fifteenth day of May and the fifteenth day of October in any year, mad dogs, and dogs bitten by hydrophobic dogs, are hereby declared nuisances injurious to health; and any person owning or keeping any dog who shall allow the same to go unmuzzled upon any street, alley, or other public place, between the fifteenth day of May and the fifteenth day of October in any year, or who shall refuse to kill, or to cause to be killed, any such dog owned or kept by him, which has gone mad, or given symptoms of hydrophobia, or who shall omit to confine any such animal exposed to such disease, or which has been bitten by a hydrophobic dog or animal, shall be deemed guilty of keeping and maintaining a nuisance, and, upon conviction thereof, shall be fined not less than one nor more than twenty-five dollars; and any dog going at large between the fifteenth day of May and the fifteenth day of October in any year, without a proper muzzle, shall be taken up by the poundmaster, who shall charge the owner of the same one dollar for its redemption; and every such dog not redeemed within twenty-four hours after having been taken up as aforesaid shall be liable to be shot by said poundmaster.

Dogs to be muzzled at certain times.

Dogs impounded may be redeemed upon payment of one dollar.

The health officer to abate nuisances after notice to party liable, and costs of removal to be collected from said party by suit at law.

SEC. 26. That it shall be the duty of the health officer appointed by this board, upon receiving information or obtaining knowledge of the existence of anything or things herein declared to be nuisances, or anything or things which may hereafter be declared to be nuisances by any ordinance or resolution enacted or adopted by this board, to notify the person or persons committing, creating, keeping, or maintaining the same, to remove, or cause to be removed, the same within twenty-four hours, or such other reasonable time as may be determined by this board, after such notice be duly given; and if the same be not removed by such person or persons within the time prescribed in said notice, it shall be the duty of the health officer aforesaid to remove, or cause to be removed, such nuisance or nuisances, and all costs and expenses of such removal shall be paid by the persons committing, creating, keeping, or maintaining such nuisance or nuisances; and if the said costs and expenses thus accruing shall not be paid within ten days after such removal by said health

officer, the same shall be collected from the person or persons committing, creating, keeping, or maintaining such nuisances by suit at law.

SEC. 27. That all fines and penalties imposed by any section of this ordinance shall be collected by prosecution in the police or other proper court of the District of Columbia, by information filed in said court, at the instance of the board of health; and whenever the nuisance complained of is set forth as continuing and existing, and is shown to be such to the satisfaction of the court before whom the person creating or maintaining said nuisance is tried, the party so offending shall, upon conviction thereof, in addition to the fine imposed, be ordered by said court to abate or remove said nuisance.

Fines to be collected by information filed in police or other court at instance of the board of health.
Court to order abatement of nuisances.

SEC. 28. That all ordinances, or parts of ordinances, of this board, inconsistent or in conflict with the foregoing provisions of this ordinance are hereby repealed.

Repeal of inconsistent ordinances.

Passed November 19, 1875.

AN ORDINANCE to amend "An ordinance to prevent domestic animals from running at large within the cities of Washington and Georgetown," passed by the board of health May 19, 1871.

Be it ordained and enacted by the board of health of the District of Columbia, That domestic animals shall not be permitted to run at large within the limits of the cities of Washington and Georgetown, and all domestic animals found running at large within the limits of said cities shall be taken up and impounded.

Domestic animals running at large to be impounded.

SEC. 2. That every animal taken up and impounded as aforesaid, within forty-eight hours after such impounding, if not claimed, and the charges for taking up, impounding, and keeping the same paid, shall be sold at public auction; and the poundmaster appointed by this board, as hereinafter provided, is hereby authorized to act as auctioneer at said sale.

Animals to be sold, poundmaster to act as auctioneer.

SEC. 3. That the proceeds of such sale shall be paid over to the treasurer of the board, who shall give duplicate receipts therefor, one copy of the same to be retained by the officer selling such animals, and the other copy to be by said officer filed with the secretary of the board; and it shall be the duty of said treasurer to keep an accurate account of all moneys received by him under the provisions of this ordinance, and to report the same from time to time as required by the board.

Proceeds of sales to be turned over to the treasurer of the board.

SEC. 4. That all moneys received by said treasurer from the sale of animals, as aforesaid, shall, if demanded by the owner of such animal, at any time within one year from the sale thereof, upon satisfactory proof that such claimant was the owner of such animal sold as aforesaid, after deduction of charges and expenses, as hereinafter specified, of taking up, and impounding, and keeping such animals, be paid to such claimant; otherwise said moneys shall be used by this board for sanitary purposes within and for the benefit of the District of Columbia.

Proceeds of sales to be paid to owner after deducting charges and expenses.

Charges for impounding domestic animals.

SEC. 5. That the charges for taking up and impounding domestic animals found running at large within the cities of Washington and Georgetown shall be as follows, to wit: For each horse, mule, bull, steer, cow, calf, heifer, two dollars; and for each sheep, goat, hog, one dollar; and for each goose fifty cents; and, in addition to said several sums, the charges for keeping said animals shall be the reasonable and necessary expenses thereof, to be paid by the owner.

No person shall break open pound, hinder or obstruct while driving or carrying animals to pound.

SEC. 6. That no person shall break open, or in any manner directly or indirectly, aid or assist in breaking open, any pound established by the board of health, or take or let any animal out of such pound, without the consent of the officer keeping the same; nor shall any person or persons hinder, delay or obstruct any person or persons engaged in driving or carrying to such pound any animal or animals liable to be taken up or impounded under the provisions of this ordinance; and any person violating the provisions of this section shall be punished, upon conviction thereof, by a fine of not less than five dollars nor more than twenty-five dollars for each and every violation.

Duties of pound master; to give bonds, &c.

SEC. 7. That there shall be appointed by the board of health a poundmaster, whose duty it shall be to take up and impound all domestic animals found running at large within the cities of Washington and Georgetown, to keep safely and carefully all property pertaining to said pound, and all animals impounded therein; and to report from time to time, through the health officer, as required by this board, the condition of said pound, and what repairs, if any, are needed; and the number and description of the animals therein impounded, and what disposition has been made of the same; and to report all moneys received by him under the provisions of this ordinance. And it shall be the further duty of said poundmaster to pay over, daily, all moneys received as aforesaid to the health officer, taking receipt therefor, and said poundmaster shall give good and sufficient bonds for the proper discharge of his several duties as herein provided.

Poundmaster to keep register of animals; persons to present evidence of ownership. Notice of sales to be published.

SEC. 8. That the poundmaster appointed by this board shall keep a register of all animals taken up by him, with an accurate description of the same, which shall at all times be open to the inspection of the public; and the said poundmaster is hereby forbidden to deliver any animal taken up and impounded to any person applying for the same unless such person shall present good and sufficient evidence of his ownership or right to the possession of said animal; and no sale of any animal or animals impounded as aforesaid shall be made until due public notice by advertisement in at least one newspaper of such sale shall have been given, together with a description of the animal or animals to be sold, as hereinbefore provided.

Repealing inconsistent ordinances.

SEC. 9. That any ordinance or part of an ordinance heretofore passed by the board of health of the District of Columbia, inconsistent with the foregoing, be, and the same is hereby, repealed.

AN ACT authorizing the Commissioners of the District of Columbia to extend the area for the taking up and impounding of domestic animals in the District of Columbia.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Commissioners of the District of Columbia be, and are hereby, authorized to prescribe rules for taking up and impounding of domestic animals found running at large in the District of Columbia.

Approved, June 27, 1879.

AN ORDINANCE to prevent the sale of unwholesome food in the cities of Washington and Georgetown.

Be it ordained and enacted by the board of health of the District of Columbia, That no person shall knowingly sell, or cause to be sold, within the cities of Washington or Georgetown, any impure, diseased, decayed, or unwholesome provisions, nor shall any person fraudulently adulterate, for the purpose of sale within said cities, any bread or other material intended to be used for food with any substance of a poisonous character, or any substance injurious to health; and any person violating the provisions of this section shall, upon conviction thereof, be punished by a fine of not less than ten nor more than fifty dollars for each and every such offense.

SEC. 2. That no person shall offer for sale within the cities of Washington or Georgetown any liquor used for drink, whether malt, vinous, or ardent, or the milk of cows or goats, intended to be used for food or drink, which has been adulterated with any poisonous or deleterious ingredient; and any person violating the provisions of this section shall, upon conviction, be punished by a fine of not less than ten nor more than fifty dollars for each and every such offense.

SEC. 3. That no person shall convey into the cities of Washington or Georgetown, and offer for sale in any part of said cities, any animal or part of animal that may be sickly, diseased, or unwholesome, or which may have died from disease or accident, or any fish, or vegetables not fresh, sound, and fit for food; and any person violating the provisions of this section shall, upon conviction thereof, be punished by a fine of not less than five nor more than twenty-five dollars for each and every such offense.

SEC. 4. That no person shall slaughter any cattle for the purpose of sale as food within the cities of Washington and Georgetown when such cattle are in a feverish or diseased condition; and any person violating the provisions of this section shall, upon conviction thereof, be punished by a fine of not less than five nor more than twenty-five dollars for each and every such offense.

SEC. 5. That no person, whether owner, manager, keeper of, agent, bar-tender, or clerk in, any saloon, restaurant, boarding-house, or eating-house, located within the cities of Washington or Georgetown, shall offer for sale as food or drink anything poisonous or unwholesome; and any person

Act extending area.

Impure or unwholesome provisions, adulterated food not to be sold.

Adulterated liquor or milk not to be sold.

Sickly and diseased animals, or that may have died of disease or accident, or any fish or vegetables not fresh and sound not to be sold.

Feverish or diseased cattle not to be slaughtered for food.

No person to offer for sale as food or drink anything poisonous or unwholesome.

violating the provisions of this section shall, upon conviction thereof, be punished by a fine of not less than five nor more than twenty-five dollars for each and every such offense.

Stalls, rooms, or stands where meats or vegetables are sold to be kept in a cleanly condition.

SEC. 6. That no person owning, renting, leasing, or occupying any stall, room, or stand where meats or vegetables are sold for food, within the cities of Washington or Georgetown, shall fail to keep said stall, room, or stand in a cleanly condition; nor shall such person allow said meats or vegetables to become poisoned, or infected, or unfit for food, by reason of uncleanly condition of such stall, room, or stand; and any person violating the provisions of this section shall, upon conviction, be punished by a fine of not less than ten nor more than twenty-five dollars for each and every such offense.

Unwholesome, watered, adulterated or swill milk, or butter or cheese made from such unwholesome milk not to be sold.

SEC. 7. That no person shall offer for sale, within the cities of Washington or Georgetown, any unwholesome, watered, or adulterated milk, or swill milk, or milk from cows kept up and fed on garbage, swill, or other deleterious substance; nor shall any person offer for sale within said cities any butter or cheese made from such unwholesome milk; and any person violating the provisions of this section shall, upon conviction, be punished by a fine of not less than five nor more than twenty-five dollars for each and every such offense.

Persons not to sell or expose for sale any unsound, blown, or unwholesome meat, or other article of food.

SEC. 8. That on and after the passage of this ordinance it shall be unlawful for any person or persons to sell or expose for sale, within the cities of Washington or Georgetown, any unsound, blown, or unwholesome meat or other article of food, under penalty of not less than five nor more than twenty-five dollars for each and every such offense.

AN ORDINANCE to provide for the inspection of streets, food, live stock, fish and other marine products in the cities of Washington and Georgetown, and to define the duties of inspectors and other officers of the board of health.

Health officer and inspectors to be appointed.

Be it ordained and enacted by the board of health of the District of Columbia, That there shall be appointed by the board of health a health-officer and such inspectors as may be required, who shall be assigned to the several duties of inspection of streets, of food, of live stock, of fish and other marine products, or detailed for the performance of such other duties as may be necessary.

Duties of health-officer.

SEC. 2. That it shall be the duty of the health-officer, as he may be directed by this board, to execute or cause to be executed the ordinances, resolutions, and orders of the board, and generally, according to its instructions, to exercise a practical supervision in respect to inspectors, pound-master, and the clerical force in his office; and said health-officer shall devote his services to the aforesaid purposes as the board may direct.

Duties of inspectors of streets.

SEC. 3. That it shall be the duty of each inspector of streets to visit every part of his district daily, and carefully inspect all streets, alleys, yards, and inclosures, horse and cow stables, privies, slaughter-houses, wharves, and other places where offensive or deleterious matter may exist, and

to report promptly to the health-officer any and all nuisances injurious to health; and the inspectors of streets shall perform such other duties and special inspections as may be directed by the health-officer.

SEC. 4. That it shall be the duty of each inspector of food to attend to the market or markets within his inspection district every morning, at the time when sales commence, and carefully inspect all meats, fowl, game, and vegetables offered for sale, and condemn, seize, and cause to be removed such as may be diseased, or from any other cause rendered unfit for food. He shall also visit, as early as practicable each day, every green-grocery or other place within the district, where articles of food are kept for sale, and perform his duty of inspection, condemnation, seizure, and removal as hereinbefore prescribed. He shall report his official proceedings daily to the health-officer, and in the performance of his duties shall be under the direction of said officer; and the inspectors of food shall perform such other duties and special inspections as may be directed by the health-officer.

Duties of inspectors of food.

SEC. 5. That it shall be the duty of the inspector of live stock to carefully inspect all cattle, hogs, sheep, or other animals intended to be killed and sold for consumption as food in the cities of Washington and Georgetown, and to condemn all such as may be diseased, or from any other cause rendered unfit for food; and it is hereby made the duty of said inspector to brand with the letter "C" all cattle, hogs, sheep, or other animals condemned as aforesaid, and said inspector shall report his official proceedings daily to the health-officer.

Duties of live-stock inspector.

SEC. 6. That it shall be the duty of the inspector of fish and other marine products to examine and inspect all fish, oysters, clams, lobsters, crabs, and other marine products, landing by boat, arriving by rail, or otherwise brought by any person or persons into the cities of Washington or Georgetown; and if, upon such inspection, said inspector shall find any of the said marine products to be in an unsound, diseased, or unwholesome condition, it shall be his duty to prohibit their sale; and the said inspector of fish is hereby authorized, empowered, and directed to condemn, seize, and remove any unsound, diseased, or unwholesome fish, oysters, clams, lobsters, crabs, or other marine products which may be offered for sale as food within the cities of Washington and Georgetown.

Duties of inspector of marine products.

SEC. 7. That in the performance of the duties herein prescribed the inspector of fish shall be, and is hereby, authorized and empowered to board all boats, vessels, steamboats, and cars, and to stop all vehicles believed by him to contain fish or other marine products, for the purpose of enforcing the provisions of this ordinance, and said inspector shall report his official proceedings daily to the health-officer.

Inspector authorized to board boats, cars, and vehicles.

SEC. 8. That upon any cattle, meat, birds, fowls, fish, or other marine products, vegetables or other articles of food being found by any inspector or other officer of the board of health in a condition which is, in his judgment, unwholesome and unfit for use as human food, or in a condition or of a quality forbidden by the ordinances of this board, but

When an inspector of food is in doubt as to condition or quality he shall forbid the sale and notify the health officer.

with respect to the quality and condition of which articles of food said inspector or other officer may be in doubt, he shall forbid the sale thereof and order that the same be set aside, and shall at once notify the health-officer of such action; and if, upon inspection, the health-officer shall concur in the judgment of the inspector or other officer aforesaid, said health-officer shall prohibit the sale and order the removal of said articles, according to the regulations of the board of health; and if the health-officer shall not concur in the judgment of the inspector or other officer aforesaid, the sale of said articles shall be allowed. But if, upon inspection, the health-officer is in doubt as to whether said articles should be condemned or not, then the committee on food inspections of the board of health shall decide whether or not said articles shall be condemned and the sale thereof forbidden: *Provided*, That no article of food, in a decayed or offensive condition, shall be allowed to remain where found, but the same shall be caused to be removed forthwith by the inspector or officer aforesaid, according to the rules and regulations of the board of health.

Penalty for molesting or hindering health-officer or inspector.

SEC. 9. That any person who shall molest, hinder, or in any manner prevent said health-officer, or any inspector appointed by this board, from performing any duty imposed upon him or them by the provisions of this ordinance, shall be punished by a fine of not less than twenty nor more than one hundred dollars for each and every such offense.

AN ORDINANCE to amend section 10 of the code so as to read :

Drain-pipes, soil-pipes or passages into sewers of inadequate or insufficient size.

SEC. 10. *And be it further ordained and enacted*, That drain-pipes, soil-pipes, or passages into sewers, which are of inadequate and insufficient size or which are not provided with proper sewer-traps, within the District of Columbia, are hereby declared nuisances, injurious to health; and any person or persons, whether owner or tenant (board, department, or corporation officer), using or possessing any drain-pipe, soil-pipe, passage or connection between any sewer and any ground, building, or place of business, who shall fail to make such drain-pipe, soil-pipe, passage or connection of adequate or sufficient size to allow the free and entire passage of all that enters or should enter the same, and *provide them with proper sewer-traps*; and who shall fail, after notice duly served upon him, to supply such pipes of adequate and sufficient size, and *provided with proper sewer-traps*, shall be deemed guilty of keeping and maintaining a nuisance, and, upon conviction thereof, shall be punished by a fine of not less than five dollars nor more than ten dollars.

Passed July 30, 1875.

AN ORDINANCE to amend ordinance passed May 13, 1873, to read as follows:

Water-closets and privies kept in an uncleanly or foul condition or not provided with proper sewer-traps.

SEC. 1. That all water-closets and privies connected with any house, building, or premises within the District of Columbia, in and upon which people live or where they do congregate or assemble or any kind of business is done, kept in an uncleanly and foul condition, and from which of-

fensive smells and noxious gases arise, and all water-closets located within and being a part of any such house or building not provided with proper sewer-traps, so as to prevent the return and escape of noxious gases and offensive odors from any public or private sewer connected therewith, are hereby declared to be nuisances injurious to health; and any person creating, keeping, and maintaining such nuisance, after due notice served upon him by this board to abate the same within twenty-four hours or within such reasonable time as may be determined by this board, shall, upon conviction thereof, be punished by a fine of not less than five dollars nor more than twenty-five dollars for each and every day such nuisance is allowed to remain unabated.

Passed July 30, 1875.

AN ORDINANCE to prevent committing or creating nuisances in or about public urinal, or urinals located within the cities of Washington and Georgetown.

Be it ordained and enacted by the board of health of the District of Columbia, That fecal matter deposited in or about any public urinal or urinals located within the cities of Washington and Georgetown, defecating in or about said urinal or urinals, or obstructing the same in any manner or by any means whatever, are hereby declared to be nuisances, injurious to health; and any person convicted of committing or creating either of said nuisances shall be fined not less than ten dollars nor more than fifty dollars for every such offence.

Committing or creating nuisances in or about public urinals.

Passed December 28, 1876.

Rules and regulations in regard to small-pox.

THE DISEASE.

The essential nature of small-pox is to diffuse itself, and, under certain favorable conditions, it is not only communicable from person to person but capable of being transported to great distances.

Small-pox, nature of.

To prevent the propagation of the specific poison, the following sanitary regulations have been adopted by the board of health, and approved by the governor of the District of Columbia:

VACCINATION.

Parents and guardians shall cause their children and wards to be vaccinated before they attain the age of two years, and re-vaccinated whenever the board of health shall, after five years from the last vaccination, require it.

Children to be vaccinated before they attain the age of two years, &c.

The board of health hereby orders and requires the vaccination of all the inhabitants in the District of Columbia, and, whenever in their opinion the public health demands it, the re-vaccination of all persons who do not furnish satisfactory evidence that they have been successfully vaccinated or re-vaccinated within five years.

All inhabitants of the District of Columbia to be vaccinated, &c.

Board of health will furnish means of vaccination to such persons as are unable to pay for same.

The board of health will furnish the means of vaccination to such persons as are unable to pay for the same. For this purpose the physicians to the poor, or their assistants, will be directed to vaccinate the poor gratuitously; and, whenever the exigency requires it, physicians will be employed to go from house to house for the purpose of vaccinating all persons who need vaccinating.

Inmates of all corporations and institutions to be vaccinated at the expense of such corporation or institution.

Principals of incorporated manufacturing companies, superintendents of almshouses, reform and industrial schools, lunatic hospitals, and of all other charities where the poor and sick are received; masters of houses of correction, jailers, keepers of prisons, and directors, or officers of all institutions supported or aided by the District of Columbia shall, at the expense of their respective corporations or institutions, cause all inmates thereof to be vaccinated immediately upon their admission thereto, unless they produce sufficient evidence of previous successful vaccination having taken place within five years.

ISOLATION.

Small-pox occurring in a dwelling containing more than two inhabitants to be isolated.

Small-pox being eminently contagious and infectious, isolation forms an imperative necessity for the prevention of its propagation. Whenever, therefore, a case of small-pox occurs in a dwelling containing more than two inhabitants, it shall be the duty of the head of the family to select the most remote apartment for the occupancy of the person afflicted with small-pox, the highest room in the dwelling to be preferred.

Where isolation cannot be effected to the satisfaction of the health-officer, to be removed to small-pox hospital by agents of board of health.

And whenever, in a tenement house and lodging house, boarding house, or hotel, the person afflicted by the small-pox cannot be isolated to the satisfaction of the health-officer, said person shall be removed to the small-pox hospital by agents employed for the purpose by the board of health.

WARNING SIGNS.

Warning flag or placard to be exposed from premises occupied by a case of small-pox.

Whenever a case of small-pox breaks out in any dwelling or place, the warning flag (made of yellow flannel) shall be attached to, and exposed from, the premises occupied by said case, as a warning to the passer-by of the presence of small-pox in that locality; and if the yellow flag be not immediately attainable, a placard, on which is written in large and legible letters, "small-pox here," shall be fastened upon an exposed part of the infected house or dwelling.

DISINFECTION.

Dwellings in which small-pox occurs to be fumigated, cleansed, and disinfected.

It shall be the duty of those in whose dwellings small-pox occurs to fumigate the house and the room of the patient, with fumes of burning sulphur, three times a day; to cleanse and disinfect every part of the dwelling by the free use of chlorinated soda, carbolic acid, bromo chloralum, or such other disinfectant as the board of health may direct.

Patient's room to be kept constantly disinfected.

A cloth of the size of a square yard steeped in a solution of chlorinated soda, carbolic acid, or bromo chloralum, shall be hung in the patient's room and kept constantly saturated with the said disinfectants.

CARE OF THE SICK ROOM.

The room of the patient shall be kept thoroughly ventilated, and no other person than a nurse who has had the small-pox, or a member of the family, shall be allowed to enter the same. Persons being in attendance upon the sick shall not come in contact with other inmates or persons, unless they have been previously properly fumigated and disinfected, and have changed the clothing worn by them while in the sick-room.

Room of patient to be kept ventilated, no person but nurse or member of family allowed to enter same.

It shall be the duty of said attendants to see that no clothing is conveyed from the sick-room that has not been previously disinfected and fumigated. And, moreover, all clothing in said room, or worn by the patient while affected by small-pox shall be kept distinct and separate, and shall be given out to be washed only to persons who have had the small-pox, the fact to be stated in every instance that they are from a small-pox patient and must, therefore, be kept and washed separately.

No clothing to be conveyed from the sick-room that has not been fumigated, &c.

NOTICE TO THE BOARD OF HEALTH.

It is the duty of every good citizen immediately to notify the board of health of every case of small-pox coming to his knowledge. But it is especially enjoined by law upon the proprietors of tenement houses, lodging houses, boarding houses, and hotels, to notify the board of health of the presence of small-pox in their respective abodes, under penalty of fine and imprisonment, and this law against all persons concerned will be strictly enforced.

Board of health to be notified of the presence of small-pox.

INTERMENTS.

It shall be the duty of the citizen to immediately notify the board of health of the death of any person from small-pox of which he may have knowledge, and no one except such as may have had the small-pox, and the officers of the board of health assigned to that duty, shall take charge of, dress, or bury the body of the person who has thus died.

No person, except such as may have had small-pox, to take charge of, dress, or bury those who have died of small-pox.

The interment of persons dying from small-pox shall take place within six hours after death, or as soon as the circumstances of the case will allow; and no person who has died of small-pox shall be buried in private or public cemeteries or burying grounds without a permit from the board of health, a member of the same, or the health-officer.

Interment of persons dying of small-pox to take place within six hours after death.

Whenever funeral obsequies may be desired, the body shall be placed in a hermetically-sealed metal coffin, and no person will be allowed to be present at said obsequies or follow the corpse to the grave except the nearest kin-relations; and under no circumstances shall a corpse infected with small-pox be taken to a church or meeting house, but it shall be conveyed directly from the house to the grave.

Hermetically sealed metal coffin to be used when funeral obsequies is desired. Corpse to be conveyed directly from the house to the grave.

When people are so poor as to be unable to incur the expense of coffin and burial, any undertaker appointed to furnish coffins to the poor shall provide the coffin, and in every case shall take the same to the house in which the corpse lies, but shall not place said corpse in the coffin, or take any

Poor people to be furnished coffin and buried by board of health.

part in laying out the dead, unless he has had the small-pox, and properly fumigated and disinfected his clothing. The laying out of the body and the burial shall be done by the officers appointed for that purpose by the board of health.

SMALL-POX AMBULANCE, INSPECTORS HAVING CONTROL OF THE SAME AND DRIVER THEREOF.

Ambulances to be kept at small-pox hospital.

The small-pox ambulances shall be kept at the small-pox hospital.

Inspector to accompany ambulance.

The ambulance shall be accompanied by an inspector whenever needed for the removal of small-pox patients or otherwise.

Inspector and driver not to enter street cars, &c.

The inspector accompanying the ambulance and the driver are forbidden from entering street cars or any public conveyance.

Clothing to be changed.

They shall also keep a suit of clothing to wear during the service of removing small-pox patients; said suit of clothing to be kept fumigated and disinfected at all times, and under no circumstances shall they wear the said clothing when off duty.

Inspector and driver to wear a linen suit while on duty.

The inspector attending to small-pox patients and the driver of the ambulance shall, until otherwise ordered, wear a linen suit while on duty.

Inspector to fumigate and disinfect dwellings, disinfect clothing, and see that it is destroyed; also keep account of clothes or furniture of poor persons destroyed.

The inspector detailed to attend to the removal of small-pox patients shall fumigate and disinfect the dwellings where small-pox cases occur. He shall see that the clothing is properly disinfected, packed up, carried safely to the ambulance and destroyed. He shall keep an account of the clothes and furniture of poor persons which have been destroyed, the probable value of the same, and the names of the parties to whom they belong, and give a receipt for the same.

Ambulance not to tarry in the streets.

Under no circumstances shall the ambulance be allowed to tarry in the streets, except for such length of time as will be required to remove the patient or the body.

Repairs of ambulance.

The ambulance shall not be taken to any place for repairs; but, if repair is needed, a person having had the small-pox shall be engaged to mend it *at its regular depository*.

Driver of ambulance to avoid crowded thoroughfares, &c.

In driving the ambulance to any point care shall be taken to avoid crowded streets, school-houses, or frequented places. The driver shall, as far as practicable, keep out of crowded thoroughfares, and shall avoid meeting or passing any procession, funeral, or large concourse of people.

Yellow flag to be displayed.

The inspector shall display the yellow flag from every dwelling containing small-pox; and if said flag be taken away without authority, the health-officer must be immediately notified of the fact.

Inspectors of districts to see that quarantine regulations are enforced.

The inspector of each district shall be notified of the presence and locality of small-pox cases in his district; and it shall be his duty to see that the quarantine regulations relating to houses having the small-pox within are properly enforced, and that no person exposed to the contagion be allowed to go out of the dwelling or come in contact with any other person.

The inspector shall, in an urbane manner, inform the people of the quarantine regulations imposed by the board of health regarding small-pox, but shall cause no unnecessary hardship.

The inspector detailed to attend to the small-pox shall first ascertain whether the case can be isolated in the dwelling, so as not to expose the other inmates to the disease.

Whenever a patient in a tenement, lodging-house, boarding-house, or hotel, is so situated that he cannot be isolated from other inmates, he or she shall be removed and taken to the hospital; and if any person interferes with the execution of this order, or the patient refuses to obey, the law shall be enforced against such person or persons.

If it come to the knowledge of any inspector that cases of small pox are kept in tenement-houses, lodging-houses, boarding-houses, or hotels, without the proper notice having been given to the board of health as required by law, the inspector shall make immediate report to the health-officer, stating the name of the person or persons causing or abetting in the violation of this law.

In all cases where there is doubt whether a person is really afflicted with small-pox, a physician's opinion should be secured before removing the patient.

The inspector shall see that the rules regarding the interment of persons who die of small-pox be complied with.

The foregoing rules and regulations are made and promulgated by the board of health of the District of Columbia, in accordance with an act entitled "An act for the prevention of diseases in the District of Columbia," passed by the legislative assembly of said District, and approved by the governor thereof, June 19, 1872.

CHRIS. C. COX, M. D., LL. D.,
President Board of Health.

Attest:

D. W. BLISS, M. D.,
Secretary.

Approved:

H. D. COOKE,
Governor.

DISTRICT OF COLUMBIA, BOARD OF HEALTH,
Washington, D. C., December 26, 1872.

It is hereby ordered and resolved by the board of health of the District of Columbia, That the "rules and regulations in regard to small-pox," heretofore made and promulgated by the board of health aforesaid, and approved by the governor of said district, be amended as follows, to-wit:

PHYSICIANS ATTENDING UPON SMALL-POX PATIENTS.

It shall be the duty of every physician resident of the District of Columbia, or otherwise, attending upon any person affected by small-pox within said District, to report to the board of health said case of small-pox within twelve hours after his first visit and discovery of the disease of

Inspector not to cause any unnecessary hardship.

Inspector to see that other inmates are not exposed.

Patient to be removed to hospital when he or she cannot be isolated.

Inspector to report to health-officer the names of persons failing to notify board of health of cases of small-pox.

Physician's opinion to be secured where there is doubt as to the disease.

Inspector to see that rules regarding interment are complied with.

Physicians to report small-pox cases within twelve hours after first visit, &c.

said person; the name and residence of said person; and whether the room or residence in which said person may be situated and attended has been and is fumigated and disinfected according to the "rules and regulations" aforesaid.

CHRIS. C. COX, M. D.,
President Board of Health.

Attest:

D. W. BLISS, M. D.,
Secretary.

Approved:

H. D. COOKE,
Governor.

Regulations to prevent the spread of small-pox.

Pupils of public and private schools not to be admitted unless vaccinated.

Resolved, That all school trustees, school teachers, or others having authority, are forbidden to receive into or allow to attend any school, public or private, within the District of Columbia, any pupil not vaccinated, as required by the "rules and regulations" heretofore made and promulgated by this board.

Passed February 14, 1873.

Approved by the governor, February 14, 1873.

Act and regulations with regard to vital statistics.

AN ACT to further define and enlarge the powers and duties of the board of health of the District of Columbia.

Board of health to make and enforce regulations to secure a correct record of vital statistics.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That it shall be the duty of the board of health of the District of Columbia to make and enforce regulations to secure a full and correct record of vital statistics, including the registration of deaths and the interment of the dead in said District.

Approved June 23, 1874.

In accordance with the foregoing act of Congress, and in pursuance of authority thereby conferred, the following regulations are made and promulgated for the information and guidance of all concerned:

Regulations to secure a full and correct record of vital statistics, including the registration of marriages, births, and deaths, the interment, disinterment, and the removal of the dead in the District of Columbia.

Providing for the appointment of a registrar of vital statistics and defining duties of same.

It is hereby ordered by the board of health of the District of Columbia, that there shall be elected or appointed from its members, as the board may direct, an officer named and known as the registrar of vital statistics of the District of Columbia, but who may be designated registrar, and who shall, under the direction of said board, keep a full and correct record of vital statistics, issue such permits as are here-

inafter required, make and publish a weekly statement of births, marriages, and deaths in said District, and perform such other duties as are hereinafter provided.

Second That it shall be the duty of every clergyman, magistrate, or other person who shall perform any marriage ceremony within the District of Columbia, to report each marriage ceremony solemnized by him to the registrar aforesaid, within forty-eight hours thereafter, giving the full name, age, color, occupation, birthplace (State or county), and legal residence of each person married, and the date of such marriage.

Clergymen, magistrate or others to report marriages within forty-eight hours.

Third. That any physician, accoucheur, midwife, or other person in charge who shall attend, assist, or advise at the birth of any child within the District of Columbia, shall report to the registrar aforesaid, within six days thereafter, stating distinctly the date of birth, sex, and color of the child or children born, its or their physical condition, whether still-born or not, the full name, nativity, and residence of the parents, and the maiden name of the mother of such child or children.

Births to be reported within six days, &c.

Fourth. That whenever any person shall die within the District of Columbia it shall be the duty of the physician attending such person during his or her last sickness, or of the coroner of the District when the case comes under his official notice, to furnish and deliver to the undertaker, or other person superintending the burial of said deceased person, a certificate, duly signed, setting forth, as far as the same may be ascertained, the name, age, color, sex, nativity (giving State or country), occupation, whether married or single, duration of residence in the District of Columbia, cause, date, and place of death (giving street and number), and duration of last sickness of such deceased person. And it shall be the duty of the undertaker, or other person in charge of the burial of such deceased person, to state in said certificate the date and place of burial, and having signed the same, to forward it to the registrar aforesaid, within twenty-four hours after such death: *Provided*, That in case of death from any infectious or contagious disease said certificate shall be so made and forwarded within eight hours thereafter.

Deaths to be reported within twenty-four hours, and nature of report.

Fifth. That no interment or disinterment of the dead body of any human being, or disposition thereof in any tomb, vault, or cemetery shall be made within the District of Columbia without a permit therefor, granted by the board of health of said District, nor otherwise than in accordance therewith. And no sexton or other person shall assist in or assent to, or allow any such interment or disinterment to be made until such permit shall be given, as aforesaid; and it shall be the duty of every sexton or other person having charge of any burying ground, cemetery, tomb, or vault, as aforesaid, who shall receive any such permit, to preserve and return the same to the registrar aforesaid, before 6 o'clock p. m. of the Saturday following the day of burial; and no sexton, undertaker, or other person shall bury or cause to be buried, the body of any deceased person within the District of Columbia, except in such grounds as are

Permits required for interment or disinterment of the dead body of any human being or disposition thereof.

Sextons of cemeteries to return permits to registrar on the Saturday following the burial.

No burials to be made except in known burial grounds.

now known and used as burial-grounds, or such as shall hereafter be by law designated and authorized to be used as such.

No dead body to be conveyed from, in, to, or through the District without permit therefor.

Agent of corporation having charge of transportation to return coupon attached to permit to registrar.

Sixth. That no dead body, or part of the dead body of any human being shall be in any manner carried or conveyed from, in, to, or through the District of Columbia, by any person, or by means of any boat, vessel, car, stage, or other vehicle, or by any public or private conveyance, without a permit therefor first granted by the board of health of said District; and when the remains of any deceased person are to be conveyed, transferred, or removed beyond the limits of the District of Columbia, it shall be the duty of the person, or agent or officer of the corporation having charge of the conveyance, transfer, or removal, to detach, sign, and return the coupon attached to said permit to the registrar of vital statistics of the board of health aforesaid, before 5 o'clock p. m. of the Saturday following the conveyance, transfer, or removal of said remains: *Provided*, That the same effect may be given by said board to a burial or transit permit issued by the proper authority of any other place or jurisdiction, when the death of the person named in the permit shall have occurred within such place or jurisdiction.

Health officer to make certificate in case of death without the attendance of a physician.

Seventh. That whenever a permit for burial is applied for, in case of death without the attendance of a physician, or if it be impossible to obtain a physician's certificate, it shall be the duty of the health-officer to investigate the cause and circumstances of such death, to make and sign the certificate required by section 4 of these regulations, and if not satisfied as to the cause and circumstances of such death he shall so report to the board of health, who shall refer the case to the coroner of the District for investigation and report, and said coroner is hereby required to make such investigation and report.

Physicians, accouchers, undertakers, &c., to register at board of health.

Eighth. That it shall be the duty of every physician, accoucher, midwife, undertaker, sexton, or superintendent of any cemetery, or other person having charge of the same, practicing medicine or doing business within the District of Columbia, to register his or her name in a book or books to be provided for such purpose at the office of the board of health of said District, giving full name, residence, and place of business, and in case of removal from one place to another in said District, to make change in said register accordingly.

Penalty for violating the foregoing ordinances.

Ninth. That any person who shall violate or aid and abet in violating any of the provisions of the foregoing regulations, shall, upon conviction thereof by competent judicial authority, be punished by a fine of not less than twenty-five nor more than two hundred dollars for each and every such offense.

Repeal of inconsistent rules and ordinances.

Tenth. That all rules, regulations, and ordinances heretofore passed by this board inconsistent with the provisions of these regulations be, and the same are hereby, repealed.

These regulations to take effect on and after August 1, 1874.

Eleventh. That these regulations shall take effect and be in force on and after the first day of August, A. D. 1874.

DISTRICT OF COLUMBIA, BOARD OF HEALTH,
Washington, August 28, 1874.

It is hereby ordered that physicians required to register their names under the eighth regulation of the board, to secure a full and correct record of vital statistics, do so upon a license received from some chartered medical society, or upon a diploma received from some medical school or institution.

Physicians to register upon license or diploma.

Second. That the expression "physical condition," as employed in the statute heretofore enacted by the legislative assembly of the District, and incorporated in the third regulation, be defined as follows: "*The general physical condition,*" whether healthy or unhealthy. But in no case will the board require in the enforcement of this rule that sick-bed or confidential communications made to physicians be revealed in the report required by this third regulation.

Defining the expression "physical condition."

Third. That on and after the fifteenth day of next month, by which time all physicians of the city may have registered according to the requirements of the board, the regulation with regard to penalties be rigidly enforced; and that up to that date the regulation with regard thereto, as far as any violations thereof have occurred, and as far as this board is concerned, as prosecutors, the same be not enforced.

Penalties to be enforced against physicians who have not registered.

Acts of the legislative assembly, District of Columbia, affecting the health department.

CHAP. XLVIII.—AN ACT in relation to reports of births within the District of Columbia.

Be it enacted by the legislative assembly of the District of Columbia, That it shall be the duty of every physician, accoucher, or midwife, who shall attend at the birth of any infant within the District of Columbia, to forward a report to the board of health of said District within six days after such birth, stating distinctly the date of birth, the sex and color of the child thus born, its physical condition, whether still-born or not, and the name and nativity of the parents of such child; and any such physician, accoucher, or midwife who shall fail to report as herein required, shall be punished by a fine of not less than five nor more than ten dollars for each and every such offense.

SEC. 2. *And be it further enacted,* That all fines imposed under the provisions of this act shall be for the use of the District of Columbia.

Approved, August 18, 1871.

CHAP. LIX.—AN ACT in relation to draining certain lots, and for other purposes.

Be it enacted by the legislative assembly of the District of Columbia, That any person or persons owning any lot or lots bordering on a public or private sewer, will henceforth be required to drain such lot or lots into the sewer bordering thereon, and also drain all slops and water-closets into

such sewer whenever the board of health shall decide upon the necessity for so doing.

SEC. 2. *And be it further enacted*, That if any person or persons owning such lot or lots shall neglect or refuse to comply with the requirements of the first section of this act within thirty days after a written notice has been served upon him or them by a member of the sanitary metropolitan police, under authority or instruction from the board of health, or if such lot or lots be vacant, and no owner or agent can be found within the District, after a written notice has been posted upon the lot or lots for the period aforesaid by a member of said sanitary police, then the board of health shall cause the said premises to be properly drained to the satisfaction of the Board of Public Works, and the cost thereof, including the proportionate cost of such private sewer as may be thus made, shall be chargeable to the property and be a lien thereon, to be collected in the same manner as other special taxes on real estate are collected.

SEC. 3. *And be it further enacted*, That where it has been found necessary to drain into a private sewer, the party owning or constructing such private sewer shall be entitled to such remuneration as may be deemed just by the Board of Public Works, and the premises drained shall be assessed for such remuneration, which shall be collected as provided for in section 2.

SEC. 4. *And be it further enacted*, That all acts or parts of acts inconsistent with this act be, and the same are hereby, repealed.

Approved, August 21, 1871.

CHAP. CVIII.—AN ACT prescribing the duties of certain officers for the District of Columbia, and fixing their compensation.

* * * * *

SEC. 13. *And be it further enacted*, That it shall be the duty of the coroner to hold an inquest over any person found dead in the District of Columbia, when the manner and cause of death shall not be already known as accidental, or in the course of nature. No coroner's jury shall receive any fee or compensation for services as such, and said coroner is hereby authorized and empowered to issue his certificates to the auditor for the payment of such expenses as may be necessary for the interment of any person over whom he has held an inquest, and whose body is not claimed by friends or relatives: *Provided*, That the amount of such expenses shall not exceed the sum of ten dollars. He shall make a monthly report to the board of health of the number of inquests held by him during the month last past before said report, with a full description, as far as may be, of the age and sex of persons, color and nationality, the cause and mode of their death, and such other particulars as may be necessary to their identification, in case of strangers and unknown persons. He shall also, immediately after holding any inquest, deposit in some bank in the city of Washington, subject to the order of the governor, all moneys, all

other property, and all other effects, with the property clerk of the police department, which shall be found upon the person of those over whom he shall hold inquest, as hereinbefore provided. He shall receive a salary of two thousand dollars per annum, and give bond, to be approved by the governor, in the sum of five thousand dollars, conditioned for the faithful performance of his duties.

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Approved, August 23, 1871.

CHAP. IV.—AN ACT for the prevention of diseases in the District of Columbia.

Be it enacted by the legislative assembly of the District of Columbia, That it shall be the duty of the board of health of the District of Columbia, whenever in their judgment the said District is threatened with, or affected by, any formidable epidemic, infectious or contagious disease, to issue or cause to be issued such orders, regulations, and instructions as may in their judgment be deemed effective for the prevention or removal of such disease; which orders, regulations, and instructions shall be advertised in at least two daily papers in the District of Columbia for a period of thirty days; said orders, regulations, and instructions to be and remain in full force and effect until by the said board revoked: *Provided,* That the same may from time to time be modified in such manner as, in the judgment of said board, shall be deemed necessary; said orders, regulations, and instructions to be subject to the approval of the governor.

SEC. 2. *And be it further enacted,* That the orders, regulations, and instructions aforesaid shall include orders, regulations, and instructions for the speedy interment of the dead; for house to house visitation; for the dispensing of disinfectants to the poor, which may be calculated to prevent the spread of such disease; for vaccination; for the isolation of any person afflicted with such disease, and affording such persons afflicted or threatened with such disease such aid or hospital accommodations as circumstances may require; said orders, regulations, and instructions shall further include directions for cleansing and purifying, ventilating and disinfecting dwellings, alleys, gutters, privies, cesspools, and the like; clothing, bedding, furniture, and the like, or, in case of necessity, in their judgment, the destruction of such clothing, bedding, or furniture of a textile nature: *Provided,* That in the event of the bedding, clothing, or furniture of poor persons, they shall be reasonably compensated for the loss of the same out of any moneys in the treasury of the board of health not otherwise appropriated.

SEC. 3. *And be it further enacted,* That whenever, in their opinion, the complete isolation of any person suffering from any such disease (the same being an inmate of any tenement house, lodging-house, boarding-house, or hotel in the Dis-

trict of Columbia) cannot be secured by other means, such persons shall be removed as expeditiously as possible, under direction of the board of health, to the public hospital for treatment, and any person suffering from any dangerous infectious or contagious disease, or any person having the care, charge, or control of such diseased person, who shall refuse to comply with the provisions of this section, or who shall resist the enforcement thereof by proper authority, shall be liable to a fine of not less than ten dollars, nor more than fifty dollars; and in case of the person having charge or control of such diseased person, to imprisonment in the District jail for a period of not more than thirty days, in addition to the fine aforesaid.

SEC. 4. *And be it further enacted*, That the proprietor of any tenement-house, lodging-house, boarding-house, or hotel in the District of Columbia shall, in the event of any person living in such house becoming afflicted with any such disease, at once notify the board of health thereof, in writing. For a refusal to give the notice herein provided, the person so offending shall be liable to a fine of not less than ten dollars nor more than fifty dollars for each offense.

SEC. 5. *And be it further enacted*, That any person suffering from any such infectious or contagious disease, who shall willfully expose himself in any street, public place, or conveyance, or any person having the care, charge, or control of such diseased person, or any owner or driver of any such conveyance, who does not immediately provide for the disinfection of the same, after it has conveyed such diseased person, and any person who gives, lends, sells, transmits, or exposes any clothing, bedding, rags, or other things which have been exposed to infection, shall, on conviction, be liable to a penalty of not less than ten dollars nor more than one hundred dollars.

SEC. 6. *And be it further enacted*, That any person who shall let to any other person any house, room, or part of a house in which any patient has been confined by reason of such disease, without having such room, house, or part of a house completely disinfected to the satisfaction of the board of health, as certified by them, such person shall be liable to a penalty of not less than ten dollars nor more than fifty dollars for each offense.

SEC. 7. *And be it further enacted*, That all fines imposed by the provisions of this act shall be recovered as other fines are recovered for the use of the District of Columbia.

SEC. 8. *And be it further enacted*, That the expenses incurred in carrying the provisions of this act into effect shall be paid out of the treasury of the board of health.

SEC. 9. *And be it further enacted*, That all acts and parts of acts of the legislative assembly of the District of Columbia inconsistent with the provisions of this act be, and the same are hereby, repealed.

SEC. 10. *And be it further enacted*, Whereas an emergency exists, therefore this act shall take effect on its approval by the governor.

Approved, June 19, 1872.

AN ACT to create a revenue in the District of Columbia by levying a tax upon all dogs therein, to make such dogs personal property, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be levied a tax of two dollars each per annum upon all dogs owned or kept in the District of Columbia; said tax to be collected as other taxes in said District are or may be collected. Dogs to be taxed.

SEC. 2. It shall be the duty of the collector of taxes, upon receipt of said tax, to give to the person paying the same, for each dog so paid for, a suitable metallic tag, stamped with the year, showing that said tax has been duly paid; and he shall keep a record of all such payments, with the date thereof, and the name, color, and sex of such dog; and the name of the person claiming any dog so paid for; and a copy of such record, certified under the hand and official seal of the said collector, which shall be given to any person demanding the same, upon payment of twenty-five cents therefor, shall be prima facie evidence of such payment in any court of the District of Columbia. Duty of collector of taxes. Tags to be issued.

SEC. 3. The poundmaster of the District of Columbia shall, during the entire year, seize all dogs found running at large without the tax-tag, issued by the collector aforesaid, attached, and shall impound the same; and if, within forty-eight hours, the same are not redeemed by the owners thereof, by the payment of two dollars, they shall be sold or destroyed, as the poundmaster may deem advisable; and any sale made by virtue hereof shall be deemed valid to all intents and purposes, in all the courts of the District of Columbia. Unlicensed dogs to be seized during the entire year.

SEC. 4. Any dog wearing the tax-tag hereinbefore provided for shall be permitted to run at large in the District of Columbia, and shall be regarded as personal property in all the courts of said District; and any person injuring or destroying the same shall be liable to a civil action for damages, which, upon proof of said injuring or killing, may be awarded in a sum equal to the value usually put upon such property by persons buying and selling the same, subject to such modification as the particular circumstances of the case may make proper. Dogs wearing tags to be personal property.

SEC. 5. Any person owning any dog so recorded in the collector's office shall be liable in a civil action for any damage done by said dog to the full amount of the injury inflicted. Owner to be liable.

SEC. 6. It shall be the duty of any person owning or possessing a dog to place, or cause to be placed and kept, around the neck of such dog, a collar, on which shall be marked and engraved, in legible and durable characters, the name of the owner or possessor, and the letters "D. C.", and to which collar must be attached the insignia or tax-tag furnished by the District tax-collector, in accordance with the first and second sections of this law, under the penalty of not less than five or more than ten dollars; and if any person shall put, or cause to be put, a collar, with the insignia or tax-tag, around the neck of any dog owned or Collars to be worn by all dogs, with name of owner and tag attached.

possessed by any person or persons residing in the District, without having obtained a license for keeping such animal, he, she, or they shall forfeit and pay the sum of not less than five nor more than ten dollars for each and every offense.

When dogs shall be muzzled.

SEC. 7. Whenever it shall be made to appear to the Commissioners that there are good reasons for believing that any dog or dogs within the District are mad, it shall be the duty of the Commissioners to issue a proclamation requiring that all dogs shall, for a period to be defined in the proclamation, wear good, substantial muzzles securely put on, so as to prevent them from biting or snapping; and any dog going at large during the period defined by the Commissioners without such muzzle shall be taken by the pound-master and impounded, subject to the provisions of section three.

Penalty for removing collar or tag or molesting licensed dog.

SEC. 8. Any person who shall remove, or cause to be removed, the collar and insignia or tax-tag from the neck of any dog, or entice any properly licensed dog into any inclosure for the purpose of taking off its collar or insignia, or shall for such purpose decoy or entice any animal out of the inclosure or house of its owner or possessor, or shall seize or molest any dog while held or led by any person, or shall bring any dog into the District for the purpose of taking up and killing the same, shall forfeit and pay a sum of not more than twenty dollars.

Fierce or dangerous dogs not to go at large.

SEC. 9. If any owner or possessor of a fierce or dangerous dog permit the same to go at large in the District of Columbia, to the danger or annoyance of the inhabitants, he shall forfeit and pay, for the first offense, ten dollars; for the second, a sum not exceeding twenty dollars; and upon a third conviction for the same offense, the Commissioners shall immediately cause the dog, upon account of which the conviction takes place, to be slain and buried.

Repealing clause.

SEC. 10. That all acts or parts of acts now in force in the District of Columbia inconsistent with the provisions of this act be, and the same are hereby, repealed.

Approved, June 19, 1878.

Excerpts from Webb's Digest of the laws of the corporation of Washington.

Private alleys in state of nuisance to be closed by mayor.

Act of August 26, 1860, secs. 1 and 2.

SEC. 8 (page 4). Whenever any private alley shall be officially pronounced in a state of nuisance by a commissioner of improvements, it shall be the duty of the mayor to cause the same to be closed and kept closed until said nuisance shall have been abated to the satisfaction of the commissioner, the expense thereof to be paid from the funds of the ward in which the alley may be located; and, any person resisting the execution of this section, or reopening any alley so closed without permission of the mayor, shall be liable to a fine of not less than five nor more than ten dollars for each offense; to be recovered as other fines are.

SEC. 7 (page 213). Whenever there shall be any lot or lots, or parts thereof, or a dilapidated house or building in an unsafe or dangerous condition, or an uncovered vault or vaults, or cellar or cellars, which in the opinion of the commissioner of improvements is a nuisance, or is dangerous to the health, or endangers the lives or property of those in the vicinity thereof, he shall forthwith notify in writing the owner or owners, their agents or guardians, to be left at his or her usual or reputed place of residence within the city, and, if without, then through the public mail, of the existence of said nuisance, and to direct the removal or abatement thereof within six days from the date of such notice, if practicable, (of which practicability the commissioners shall be the judges), and, if not practicable, then within such time as they may deem reasonable; and, on the failure of the owner or owners, their agents or guardians, to remove or abate the said nuisance within the time prescribed or allowed, it shall be the duty of the commissioners, under the direction of the mayor, forthwith to do the same, due regard being had on all such occasions to the interest of the owner or proprietors of the property.

Lots, buildings, vaults, or cellars, in an unsafe or dangerous condition, to be attended to.

Same, sec. 7.

SEC. 8 (page 214). It shall be the duty of each and every person occupying a dwelling-house or store, or any other kind of building, to have the paved footwalk and gutter in front of his, her, or their premises cleaned daily from the first of May to the first of December, by collecting the dirt from such gutter into piles, to be removed under the direction of the commissioners of improvements so soon as possible after it has been collected; and any person or persons who shall fail or refuse to have the paved footwalk or gutter in front of his, her, or their premises cleaned as hereinbefore provided, shall be subject to a fine of not more than five nor less than one dollar for each and every offense.

Paved footwalks and gutters to be cleaned.

Act of Aug. 16, 1862.

SEC. 1 (page 316). It shall be unlawful for any owner or owners to occupy, rent, or cause to be rented for any dwelling-houses or tenements without providing for each and every dwelling-house or tenement a suitable privy for the use of the occupant of such dwelling-house or tenement; and if any owner or agent shall neglect or refuse to provide such privy, he shall forfeit and pay a fine of five dollars for each and every week of such neglect or refusal; and it shall be unlawful for any person or persons to make any excavation under any privy within the city, under a penalty not exceeding ten dollars for each offense.

Houses not to be rented or occupied unless provided with privies.

Act of Sept. 13, 1864, sec. 1.

Plumbing regulations.

ACT authorizing the employment of an inspector of plumbing in and for the District of Columbia, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be appointed by the Commissioners of the District of Columbia an inspector of plumbing for said Dis-

Authorizing appointment of inspector, and execution and enforcement of regulations.

trict, whose duty it shall be to inspect all houses in course of erection, and pass upon the plumbing and sewerage of said houses. *And the health officer of the District of Columbia is hereby authorized, under direction of the Commissioners, to execute and enforce regulations governing plumbing, house drainage, and the ventilation of house sewers; and any person who shall neglect or refuse to comply with the requirements of the said regulations when promulgated shall be punishable by a fine of from twenty-five to two hundred dollars for each and every such offense, or in default of payment of fine to imprisonment for thirty days.*

Approved January 25, 1881.

In accordance with the foregoing act of Congress, and in pursuance of authority thereby conferred, the following amended regulations are made and promulgated for the information and guidance of all concerned :

Regulations to
take effect.

SEC. 1. These regulations governing plumbing, house drainage, and the ventilation of house sewers, shall take effect and be in force in the District of Columbia from and after December 1, 1882, and all work of the character named, thereafter placed in or about any structure in the said District shall be done in accordance with the provisions of the same.

Duties of in-
spector of plumb-
ing.

Reports to be
made.

Houses to be in-
spected.

Oath to be tak-
en and bond en-
tered into.

Plumbers to be
bonded, regis-
tered, and dis-
play a sign.

SEC. 2. It shall be the duty of the inspector of plumbing, under direction of the health officer, to sign and issue all notices and certificates, to keep a daily record of his work, including all notices and applications received, violation of these regulations, and all other matters which may pertain thereto; to make daily, weekly, and quarterly reports, and an annual report of his operations to the health officer.

SEC. 3. He shall inspect all houses in course of erection, alteration, or repair, as often as may be necessary, and shall see that all plumbing, drainage, and sewerage work is done in accordance with the provisions of these regulations.

SEC. 4. He shall take and subscribe an oath or affirmation that he will faithfully perform the duties of his office, and shall, before entering upon its duties, execute a bond to the District of Columbia in the sum of five thousand dollars, with three sureties, to be approved by the Commissioners, conditioned upon the faithful performance of the duties of his office, and for the benefit of all persons aggrieved by his acts or neglect.

SEC. 5. It shall be the duty of every person doing business as a plumber, or engaged in conducting plumbing or house drainage in the District of Columbia, to register his or her name in a book to be provided for that purpose at the Health Department, giving full name, residence, and place of business, and in case of removal from one place to another, in said District, to make change in said register accordingly, and it shall be the further duty of every such person to give good and sufficient bond in the sum of five hundred (500) dollars, to be approved by the Commissioners of the District of Columbia, conditioned upon the observance of these regulations.

It shall be the duty of every such person to display at

his or her place of business in a conspicuous place a sign with full registered name and words "Registered Plumber," in letters not less than three inches in size.

SEC. 6. Before any portion of the drainage system of any building shall be laid or constructed there shall be filed by the owner with the health officer, for the inspector of plumbing, a plan thereof showing the said drainage system entire from its connection with the main sewer to terminus in house, together with the location of all traps, ventilating pipes, &c. The name of the plumber who is to perform the work shall be given on said plan, which must be approved by the inspector of plumbing before any portion of the work shall be executed. A permit shall not be given for the erection of any building until said plan shall have been presented and approved.

Plan of plumbing work to be filed at Health Department.

SEC. 7. No house or premises will be allowed to be connected with water, sewer, or gas main without a permit first obtained from the Engineer Commissioner. The conditions of this permit must be strictly complied with, and the work must be done by the plumber in whose name the permit is given.

Permit required in all cases.

This regulation applies to all sewers, whether on private property or in public streets or alleys.

All plumbers are required to notify the Engineer Commissioner of any and all extensions or alterations of water fixtures and pipes made inside of buildings, so that the same may be examined.

Plumbers to notify the Engineer Commissioner of alterations, &c.

SEC. 8. Blank forms of application will be furnished to plumbers. All applications must be signed by the owner of the premises, and his address written under his signature. Signing by agents will not be accepted if the owner resides in the District of Columbia.

Applications and blank forms to be signed by owners.

SEC. 9. One dollar is required by law to be paid as permit fee for each house connected, the receipt of which must be indorsed upon the application; the fee to be paid to the collector of the District of Columbia.

Fee required.

SEC. 10. All connections with sewer must be inspected by the sewer-tapper before the trench is filled, whether the service pipes have been run to the building line or not, and all appointments must be made when the permit is issued.

Inspection to be made before trench is filled.

Sewer pipes or main drains are not to be raised or lowered, or otherwise changed, except under the inspection of the sewer-tapper, and by permit from the Engineer Commissioner. Tunnelling is prohibited. All connections with pipe sewers must be made with Y branches. In every case where connection with brick sewers is made a terra cotta junction block must be used. Branches and junction blocks, and all other material for use in or about the public sewers must be purchased from the District.

No changes allowed except upon permit.

Connections, how made.

SEC. 11. Pipe sewers must not be cut, nor any connections be made in any manhole, trap, or lateral. Each house must be drained by a separate drain not less than six inches in diameter, having a fall of not less than one in forty, laid (inside the building line) entirely within the lot to which it belongs, and connecting outside the building line, only with that part of the system of drainage intended for it as shown

Pipe sewers not to be cut. Connections not to be made with manhole trap or lateral.

Each house to be separately drained.

Fall required.

on the general plans of sewerage on file in the office of the Engineer Commissioner. If this drain pipe be of terra-cotta it must be laid upon a foundation of hydraulic cement concrete four inches in thickness.

Concrete pavements to be repaired by contractor, and granite-block pavements by superintendent of repairs.

Deposit to be made for removal of pavements.

Valves to prevent back-flows to be used whenever necessary.

Time allowed for filling trench, &c.

Trap on main drain.

Main drain to be ventilated.

Iron soil pipe under buildings.

Relieving arch to protect pipe from settling of walls.

Weight of iron pipe under ground.

SEC. 12. All concrete pavements must be repaired by the contractor doing such work for the District Government, and all granite block pavements by the superintendent of repairs, at rates to be fixed by the Commissioners. Persons desiring to remove said concrete or granite-block pavements must first deposit with the chief clerk of the Engineer's Department the estimated cost of repairing the same, the receipt for which must be exhibited before the permit is issued. After the completion of the work the surplus, if any, will be returned.

SEC. 13. All permits for tapping sewers are given on conditions that owners take all risk of damages that may result from water setting back into premises from the main sewers, and in order to prevent as much as possible the setting back of water the owner shall be required, at his own cost, to put in a self-acting or other valve in all cases where the back-flow from a sewer is to be apprehended; and it shall be the duty of the owner to keep the valve in order, and he must be responsible for its action, in all cases. When the sewer connection is of iron, and carried up within the premises as a close pipe, without opening or connections of any kind, above the level of all back-flow, the flood-valve may be dispensed with, being unnecessary.

SEC. 14. The trench must be filled up, thoroughly puddled and rammed within forty-eight (48) hours after making the connection, and the pavement relaid not less than twenty days after filling, all in a workmanlike manner, satisfactory to the District Commissioners, so that no settling will occur. All rubbish must be removed from the street on completion of the work.

SEC. 15. A running trap shall be placed on every main drain at an accessible point, and a man-hole, with suitable iron cover, shall be constructed over the trap to admit of cleaning the same.

SEC. 16. Every main drain shall have an inlet for fresh air entering on the house side of trap, and carried to such point as may be approved by the inspector.

SEC. 17. When necessary to lay a soil pipe under a building, such pipe shall be of iron with leaded joints, and shall be so located as to be readily accessible for inspection. Such pipes shall be kept above ground, if practicable, shall be not less than four (4) inches in diameter, and shall extend above the roof of house; this extension shall be at least four (4) inches in diameter.

SEC. 18. Where pipe passes under walls of house there shall be a relieving arch to prevent pipe being broken by settling of brick work.

SEC. 19. The weight of the iron pipe used under ground shall be not less than—

For six-inch pipe, twenty pounds per lineal foot.

For five-inch pipe, seventeen pounds per lineal foot.

For four-inch pipe, thirteen pounds per lineal foot.

For three-inch pipe, nine and one-half pounds per lineal foot.

For two-inch pipe, five and one-half pounds per lineal foot.

SEC. 20. All iron, soil, and sewer pipes shall be coated inside and outside with coal tar applied hot. All changes in direction shall be made with curved pipes, and all connections with Y branches and one-eighth bends. All connections of lead with iron pipes shall be made with brass thimbles, full size of iron pipe, caulked into the iron with lead, and plumbers' wiped joints.

Pipe to be coated with coal tar. Changes of direction.

Connection of lead with iron pipe.

SEC. 21. Sub soil drains shall be provided whenever dampness of site of any proposed dwelling is known to exist. These may be of terra-cotta, not connected with sewers, but discharge into a manhole over running traps, and have a back water valve.

Sub soil drains to be provided.

SEC. 22. No vault, sink, cesspool, or dry well shall be in any way connected with the drainage system of any house, and all vaults, sinks, or cesspools must be water tight.

Vaults, sinks, and cesspools not to be connected with drainage system.

SEC. 23. Rain-water leaders when placed inside of any house shall be of iron with leaded or screwed joints; and when opening below or near any windows shall be effectually trapped.

Rain-water leaders, &c.

SEC. 24. No brick, sheet-metal, or earthenware flue shall be used as a sewer ventilator, or trap vent.

Flue not to be used as ventilator.

SEC. 25. All soil, drain, waste and supply pipes shall be concentrated as much as possible, protected from exposure to frost, and shall be so located as to be readily accessible for inspection.

Pipes to be concentrated.

SEC. 26. Every soil, drain, or waste pipe inside of the building line and five (5) feet exterior thereto, shall be of iron.

Soil and drain pipes to be of iron.

SEC. 27. No trap shall be placed on or at the foot of vertical soil pipes so as to impede circulation of air.

No traps on vertical soil pipes.

SEC. 28. All water-closets, sinks, basins, wash trays, &c., shall have suitable and approved traps placed as near as practicable to said fixtures.

When traps shall be used.

SEC. 29. Each and every trap shall have a *special* vent pipe of iron extending either above the roof of house, or into the soil pipe above the highest fixtures.

Ventilation of traps.

SEC. 30. The vent pipe for each water-closet trap shall be not less than two (2) inches in diameter, and for traps under other fixtures not less than one and one-fourth inches; but if exceeding ten (10) feet in length this pipe shall be not less than one and one-half (1½) inches in diameter.

Size of vent pipe.

SEC. 31. Waste pipes from bath tubs, wash-stands, and sinks shall not be connected with the trap of a water-closet.

Connection of waste from bath-tubs, wash-stands, and sinks.

SEC. 32. There shall be no direct connection of water-closets above basement floor with service pipe.

No direct connection of water-closet with service pipe.

SEC. 33. Means for thorough flushing of all soil pipes, drain pipes, and water-closets shall be provided in every case.

Flushing to be secured.

SEC. 34. Where water supply is not ample for proper flushing of water-closets, &c., the inspector of plumbing may, in his discretion, order the erection of a tank or cistern into which water may flow at night, or into which it may be pumped.

Tanks or cisterns to be used when necessary.

Supply for domestic purposes not to be drawn from tank or cistern. SEC. 35. Cisterns or tanks erected for purposes described in the foregoing paragraph shall not have an overflow pipe connected with any drain, and water supply for domestic purposes shall not be drawn therefrom.

Safes and refrigerators to be specially drained. SEC. 36. All safes and refrigerators shall be drained by special pipes not directly connected with the house drain or main sewer.

Wooden wash-trays and sinks prohibited. SEC. 37. Wooden wash-trays and sinks are prohibited inside of buildings; they shall be of non-absorbent material.

Notification to be given by the plumber in writing. SEC. 38. The inspector of plumbing shall be notified promptly in writing by the plumber, and upon blank forms to be provided for that purpose, when the plumbing work on any house is completed and ready for inspection. All inspections shall be made as soon as possible after such notification, and the pipes shall be tested by filling with water. No part of the plumbing work of any house shall be covered, or in any manner hidden from view until after such inspections shall have been made, and a certificate of approval issued by the inspector.

Work to remain exposed until after approval. SEC. 39. The inspector shall promptly condemn and order the removal of any defective material, or of any work done other than in accordance with the provisions of these regulations.

Defective work and material to be condemned. SEC. 40. Prosecution for infringement upon the provisions of these regulations shall be made by information filed in the police court in the District of Columbia.

How prosecution shall be instituted. SEC. 41. These regulations shall be subject to alteration or amendment at any time.

Amendments, &c. SMITH TOWNSHEND, M. D.,
Health Officer, District of Columbia.

OFFICE OF THE COMMISSIONERS,
DISTRICT OF COLUMBIA,
Washington, November 17, 1882.

Order. *Ordered*, That the above amended regulations are approved; and it is further required that permits shall be kept at hand during the progress of the work, to which they relate, and that they shall be exhibited whenever required by the proper officers of the District. The police are instructed to arrest any one found making any excavation in the streets or making any sewer connection without permits, as required by the foregoing regulations.

J. R. WEST,
THOS. P. MORGAN,
G. J. LYDECKER,
Major of Engineers, U. S. A.,
Commissioners of the District of Columbia.

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